88 -55'

88 50'

88 -45'

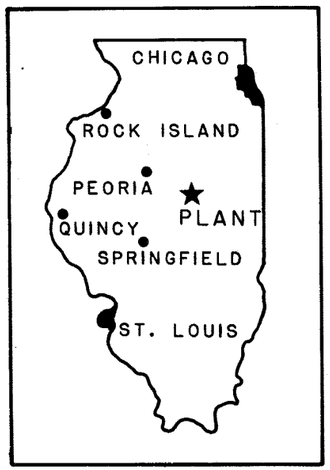
88 -40'

40 -15'

40 -10'

4,448,375 METERS NORTH

343,825 METERS EAST



LEGEND

★ PLANT

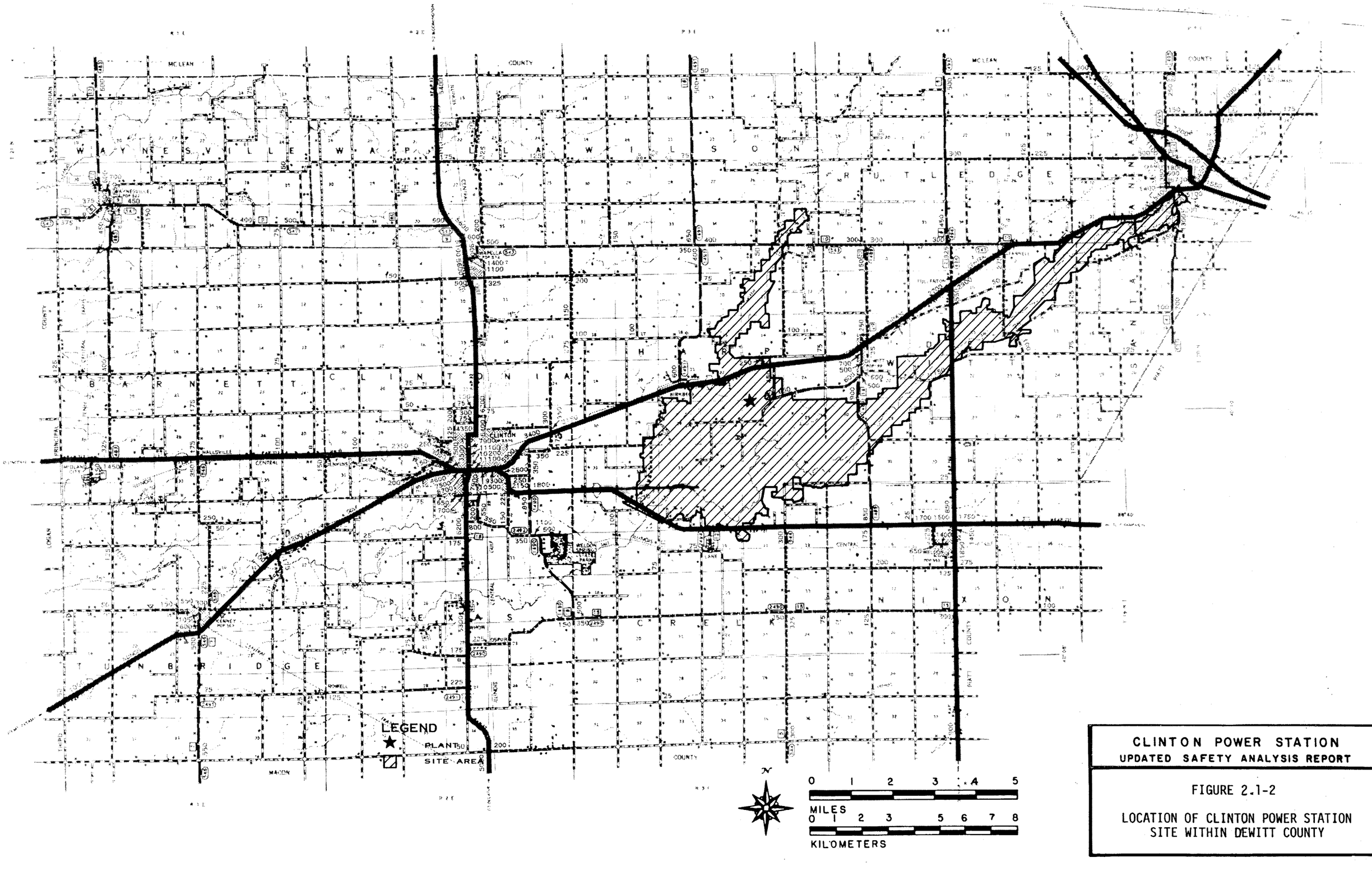
SITE AREA

N

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-1

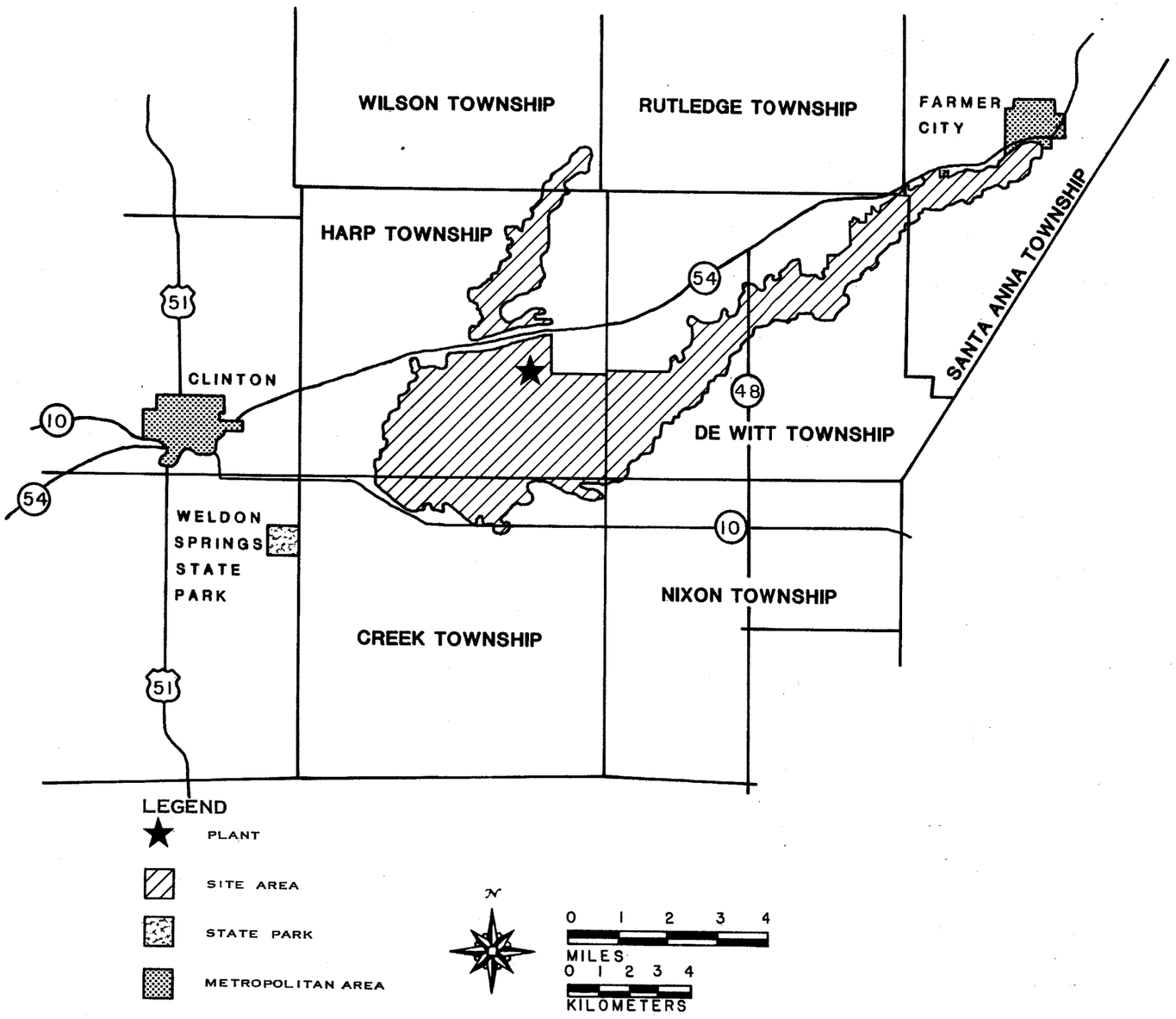
PLANT AND SITE LOCATION



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-2

LOCATION OF CLINTON POWER STATION
SITE WITHIN DEWITT COUNTY



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-3

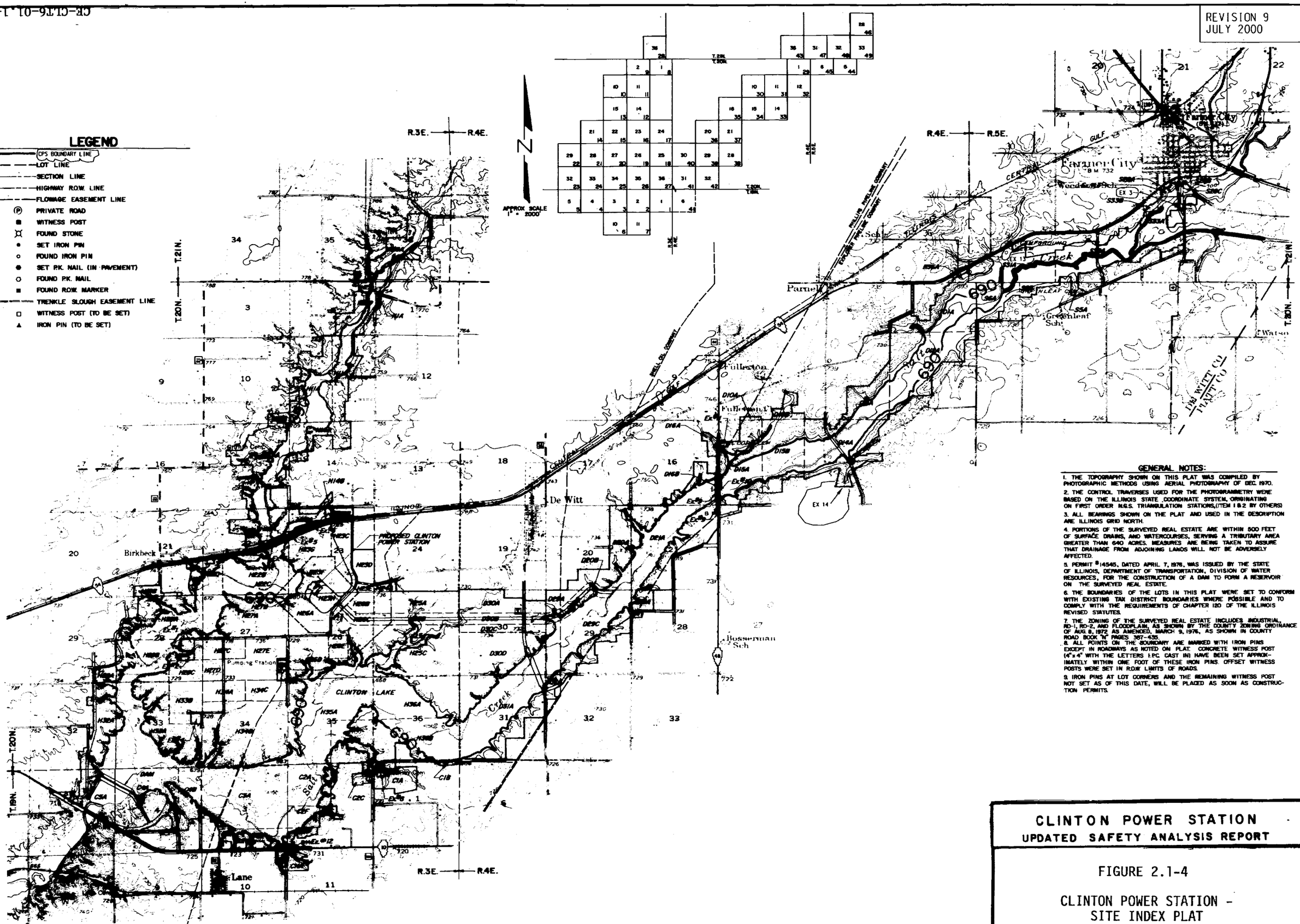
LOCATION OF CLINTON POWER STATION
SITE WITHIN POLITICAL TOWNSHIPS

CP-CLT6-01.1-A

REVISION 9
JULY 2000

LEGEND

- CPS BOUNDARY LINE
- LOT LINE
- SECTION LINE
- HIGHWAY R.O.W. LINE
- FLOWAGE EASEMENT LINE
- (P) PRIVATE ROAD
- WITNESS POST
- FOUND STONE
- SET IRON PIN
- FOUND IRON PIN
- SET P.K. NAIL (IN PAVEMENT)
- FOUND P.K. NAIL
- FOUND R.O.W. MARKER
- TRENKLE SLOUGH EASEMENT LINE
- WITNESS POST (TO BE SET)
- IRON PIN (TO BE SET)



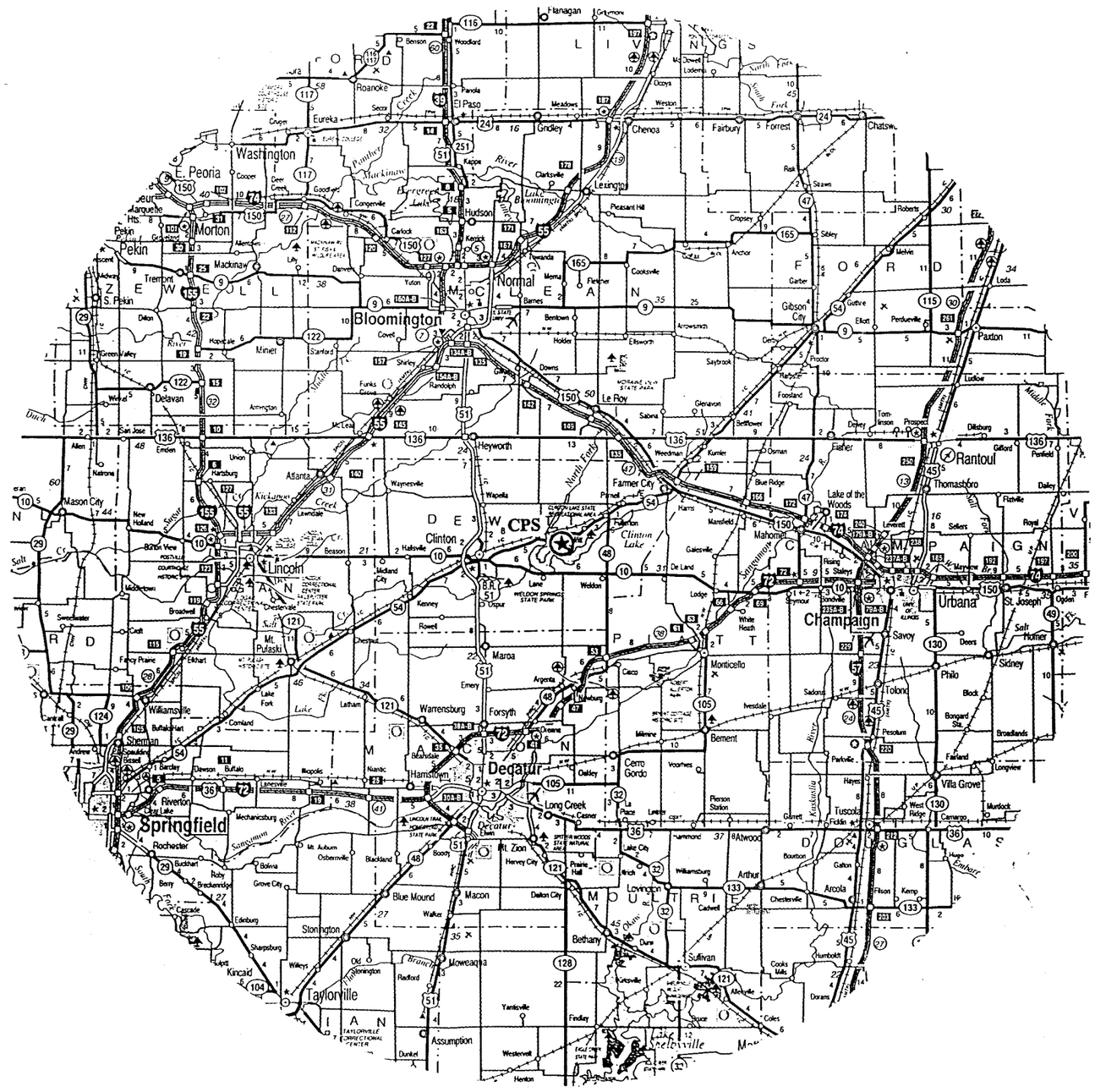
GENERAL NOTES:

1. THE TOPOGRAPHY SHOWN ON THIS PLAT WAS COMPILED BY PHOTOGRAPHIC METHODS USING AERIAL PHOTOGRAPHY OF DEC. 1970.
2. THE CONTROL TRAVERSES USED FOR THE PHOTOGRAMMETRY WERE BASED ON THE ILLINOIS STATE COORDINATE SYSTEM, ORIGINATING ON FIRST ORDER N.G.S. TRIANGULATION STATIONS.(ITEM 1 & 2 BY OTHERS)
3. ALL BEARINGS SHOWN ON THE PLAT AND USED IN THE DESCRIPTION ARE ILLINOIS GRID NORTH.
4. PORTIONS OF THE SURVEYED REAL ESTATE ARE WITHIN 500 FEET OF SURFACE DRAINS, AND WATERCOURSES, SERVING A TRIBUTARY AREA GREATER THAN 640 ACRES. MEASURES ARE BEING TAKEN TO ASSURE THAT DRAINAGE FROM ADJOINING LANDS WILL NOT BE ADVERSELY AFFECTED.
5. PERMIT #14545, DATED APRIL 7, 1976, WAS ISSUED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, DIVISION OF WATER RESOURCES, FOR THE CONSTRUCTION OF A DAM TO FORM A RESERVOIR ON THE SURVEYED REAL ESTATE.
6. THE BOUNDARIES OF THE LOTS IN THIS PLAT WERE SET TO CONFORM WITH EXISTING TAX DISTRICT BOUNDARIES WHERE POSSIBLE AND TO COMPLY WITH THE REQUIREMENTS OF CHAPTER 120 OF THE ILLINOIS REVISED STATUTES.
7. THE ZONING OF THE SURVEYED REAL ESTATE INCLUDES INDUSTRIAL, RD-1, RD-2, AND FLOODPLAIN, AS SHOWN BY THE COUNTY ZONING ORDINANCE OF AUG. 8, 1972 AS AMENDED, MARCH 9, 1976, AS SHOWN IN COUNTY ROAD BOOK "A" PAGES 357-435.
8. ALL POINTS ON THE BOUNDARY ARE MARKED WITH IRON PINS EXCEPT IN ROADWAYS AS NOTED ON PLAT. CONCRETE WITNESS POST (4"x 4" WITH THE LETTERS I.P.C. CAST IN) HAVE BEEN SET APPROXIMATELY WITHIN ONE FOOT OF THESE IRON PINS. OFFSET WITNESS POSTS WERE SET IN R.O.W. LIMITS OF ROADS.
9. IRON PINS AT LOT CORNERS AND THE REMAINING WITNESS POST NOT SET AS OF THIS DATE, WILL BE PLACED AS SOON AS CONSTRUCTION PERMITS.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-4

CLINTON POWER STATION -
SITE INDEX PLAT



LEGEND

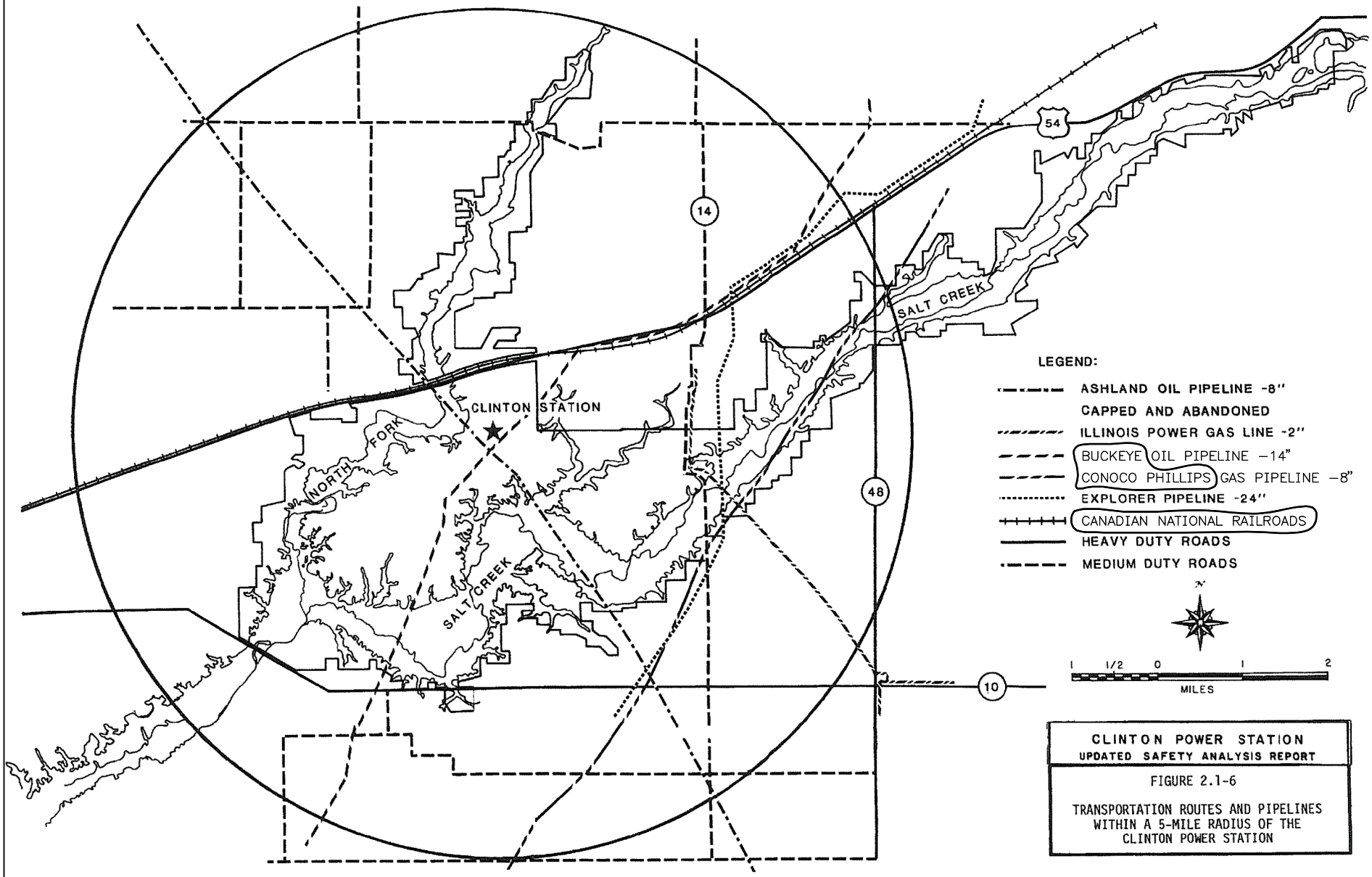
═══	PRIMARY ROADS
┼┼┼┼┼┼┼	RAILROADS
AMTK	AMTRACK
BLOL	BLOOME LINE
CNW	CHICAGO & NORTHWESTERN
CSXT	CSX TRANSPORTATION
IC	ILLINOIS CENTRAL
IHRC	HIRAIL CORPORATION
NW	NORFOLK & WESTERN
SPSCL	SOUTHERN PACIFIC CHICAGO LINE
TPW	TOLEDO, PEORIA & WESTERN
UP	UNION PACIFIC

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-5

RAILROADS WITHIN A 50-MILE RADIUS OF THE SITE

REVISION 14
JANUARY 2011



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-6

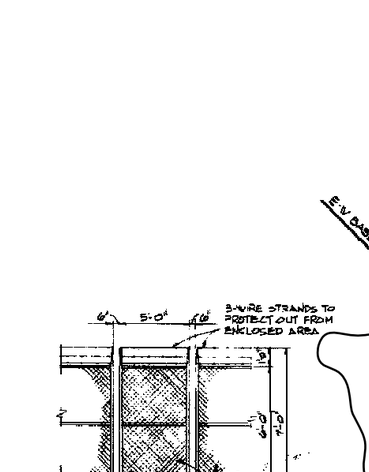
TRANSPORTATION ROUTES AND PIPELINES WITHIN A 5-MILE RADIUS OF THE CLINTON POWER STATION

REVISION 15
JANUARY 2013

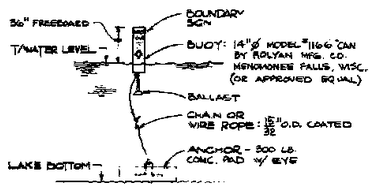
NOTES:

1) THE TYPES AND LOCATIONS OF GATES IN THE PROTECTED AREA SHOULD AGREE WITH DRAWING S03-1133.

2) LARGE FAB SHOP WILL NO LONGER BE USED AS A FAB SHOP, BUT WILL BE USED FOR STORAGE OF TURBINE DIAPHRAGMS AND CONTAMINATED TOOLS STORED IN SEA VANS.



OWNER CONTROLLED AREA FENCE ISOLATION
DETAIL A03-1201-3
NO SCALE



TYPICAL LAKE BUOY E SIGN
DETAIL A03-1201-2
NO SCALE

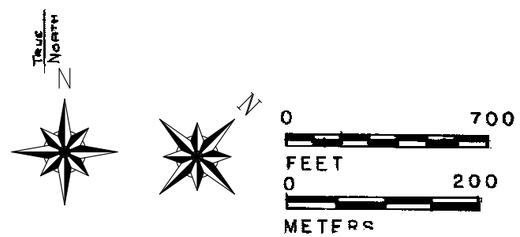
THE FENCE TURNS NORTH AT THE ROAD TO THE CPS RECREATION AREA AND ENDS AT THE LAKE SHORE

NOTE: UNIT 2 HAS BEEN CANCELLED.

LEGEND

- PERMANENT PROTECTED AREA BOUNDARY FENCE
- RESTRICTED AREA BOUNDARY
- ELECTRICAL DUCT
- PATROL PATH OR TEMP ROADS
- SLIDING GATE
- SINGLE SWING GATE
- DOUBLE SWING GATE
- GATEHOUSE
- TEMP CONSTR. BLDGS.
- R.R. TRACK
- LAKE BUOY WITH SIGN LIGHTING

NOTE: SEE FIGURE 1.2-3 SHEET 2 FOR NUISANCE FENCE LOCATION

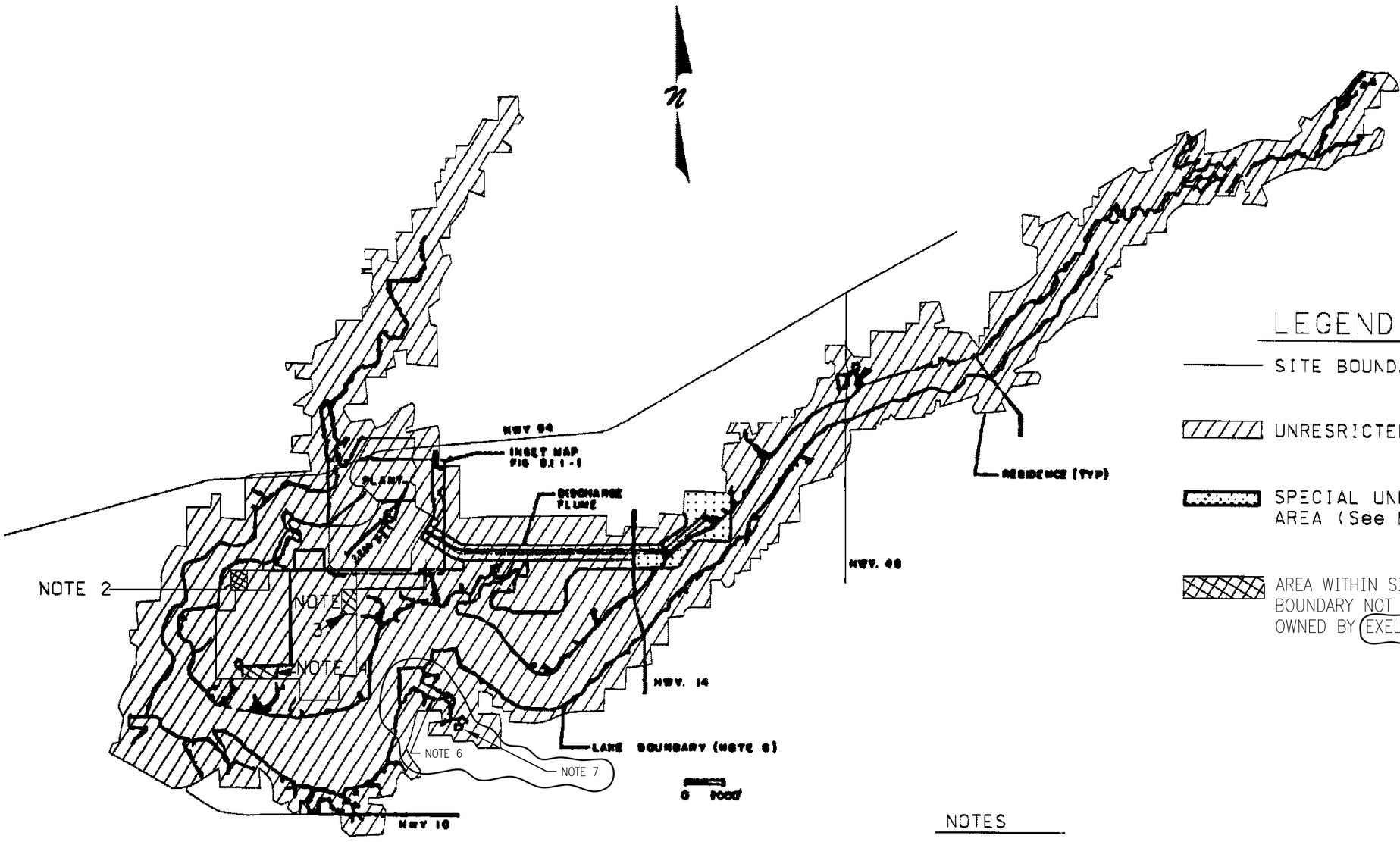


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-7

CLINTON POWER STATION RESTRICTED AREA

REVISION 15
JANUARY 2013



LEGEND

- SITE BOUNDARY
- UNRESRICTED AREA
- SPECIAL UNRESTRICTED AREA (See Note 1).
- AREA WITHIN SITE BOUNDARY NOT OWNED BY EXELON

NOTES

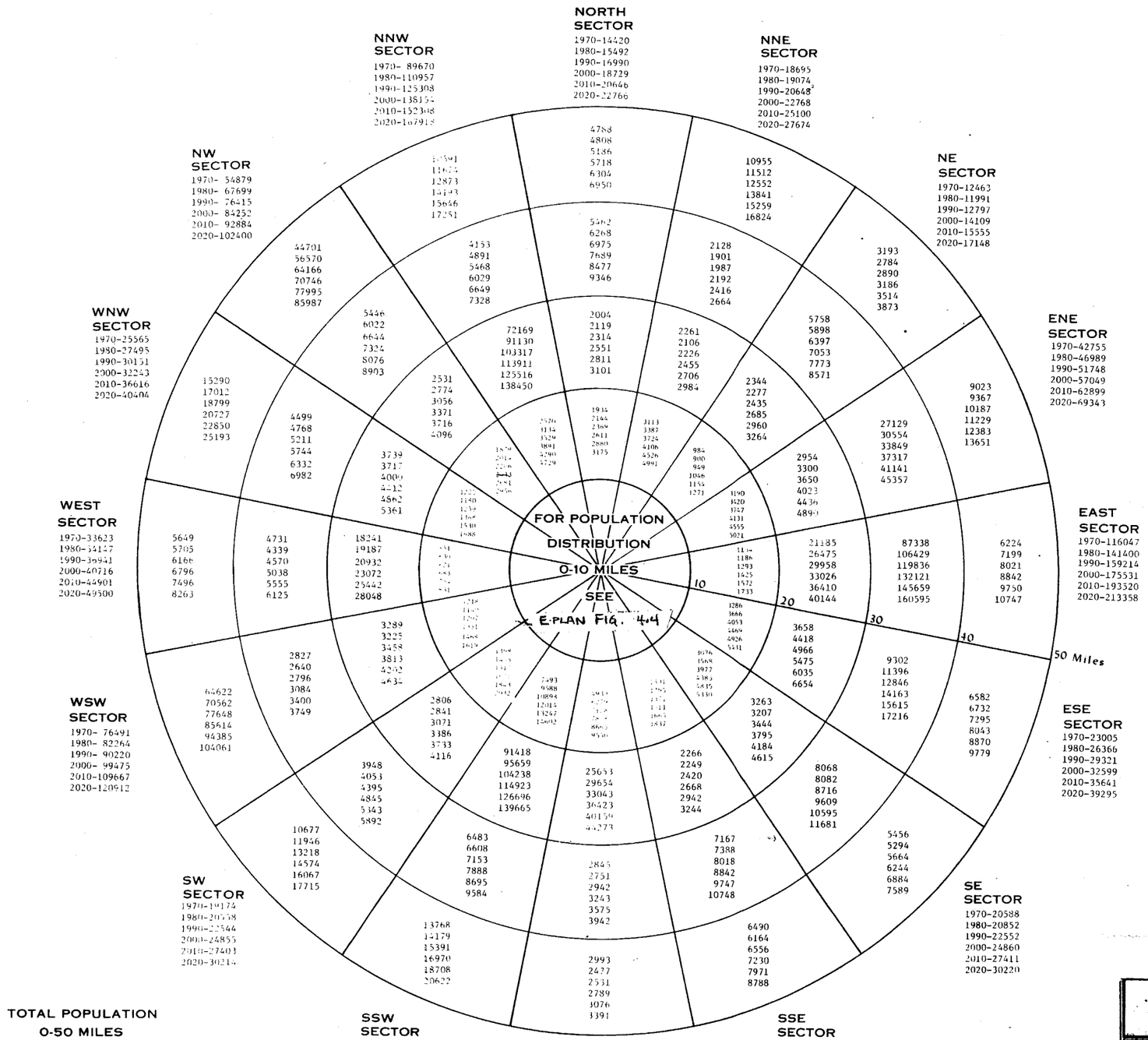
1. THE AREA IN THE LAKE BETWEEN THE BUOYS AND THE EXLUSION AREA BOUNDARY IS UNRESTRICTED AT THIS TIME, BUT WILL BE CONTROLLED IF PLANT EFFLUENT CONDITIONS WARRANT CLOSURE.
2. LAND PARCEL NOT OWNED BY EXELON, INCLUDES RESIDENCES
3. LAND PARCEL NOT OWNED BY EXELON, OIL COMPANY PIPELINE PUMPING STATION.
4. LAND PARCEL NOT OWNED BY EXELON, AGRICULTURAL USE.
5. THE LAKE SHORE IS APPROXIMATED BY 690 FT MSL ELEVATION LINE.
6. LAND PARCEL NOT OWNED BY EXELON, CLINTON LAKE MARINA.
7. LAND PARCEL NOT OWNED BY EXELON, LISENBY CEMETERY.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-8
UNRESTRICTED AREAS FOR RADIOACTIVE EFFLUENTS

FIGURE 2.1-9

HAS BEEN DELETED



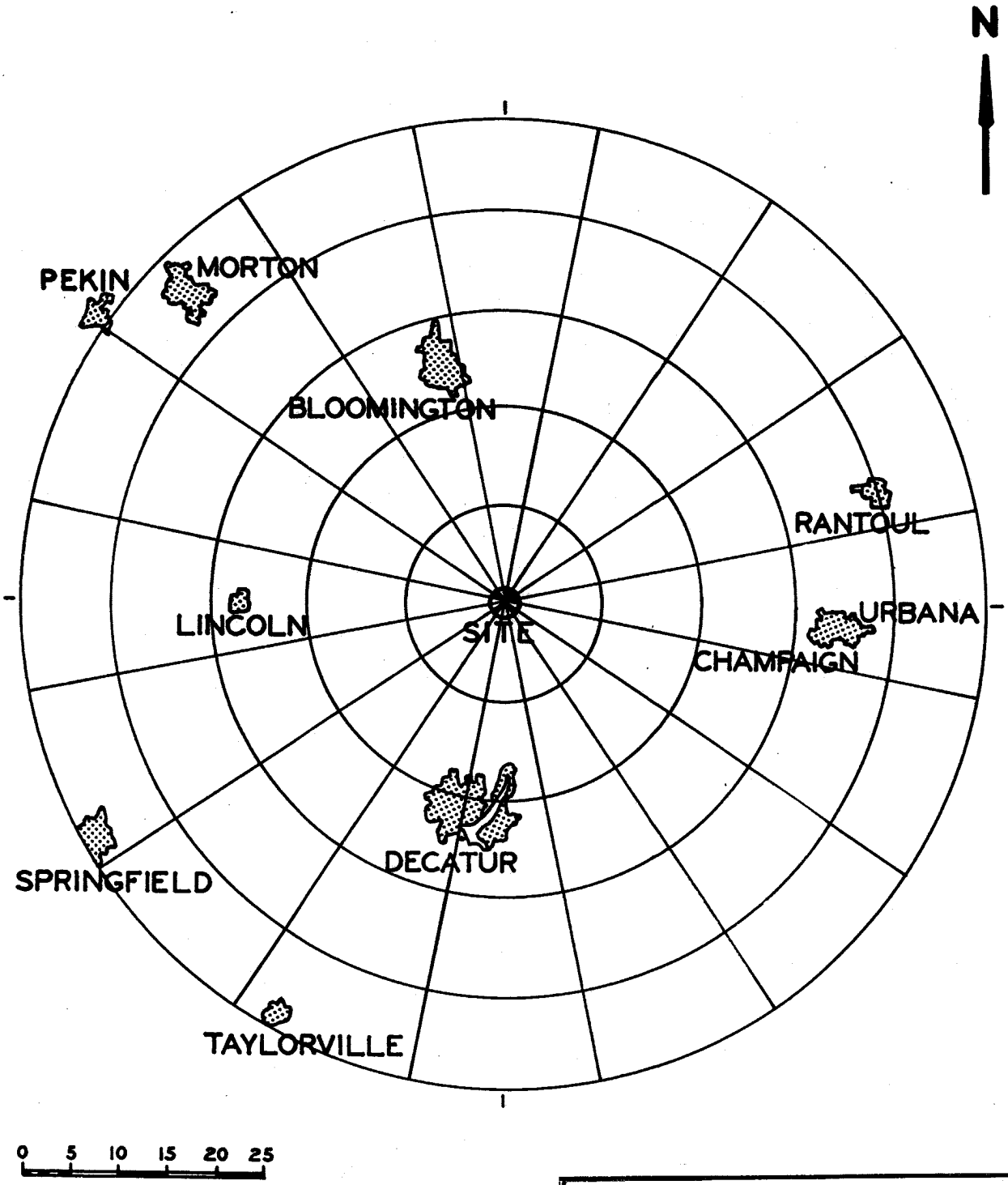
TOTAL POPULATION 0-50 MILES

1970- 720998
1980- 810296
1990- 897220
2000- 988491
2010-1090530
2020-1112310

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-10

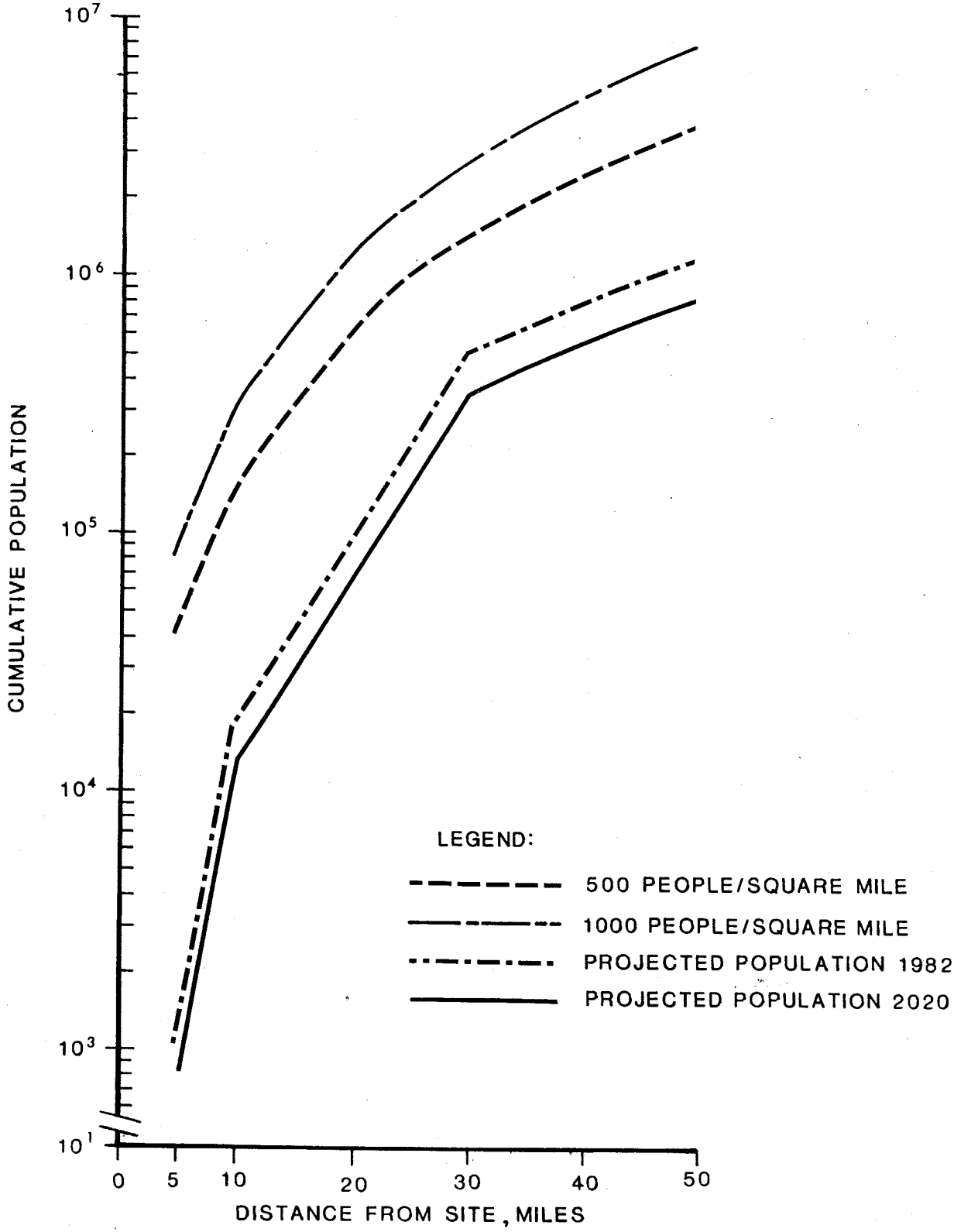
POPULATION WITHIN 50 MILES OF THE SITE



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-11

MAJOR CITIES WITHIN 50 MILES
OF THE SITE

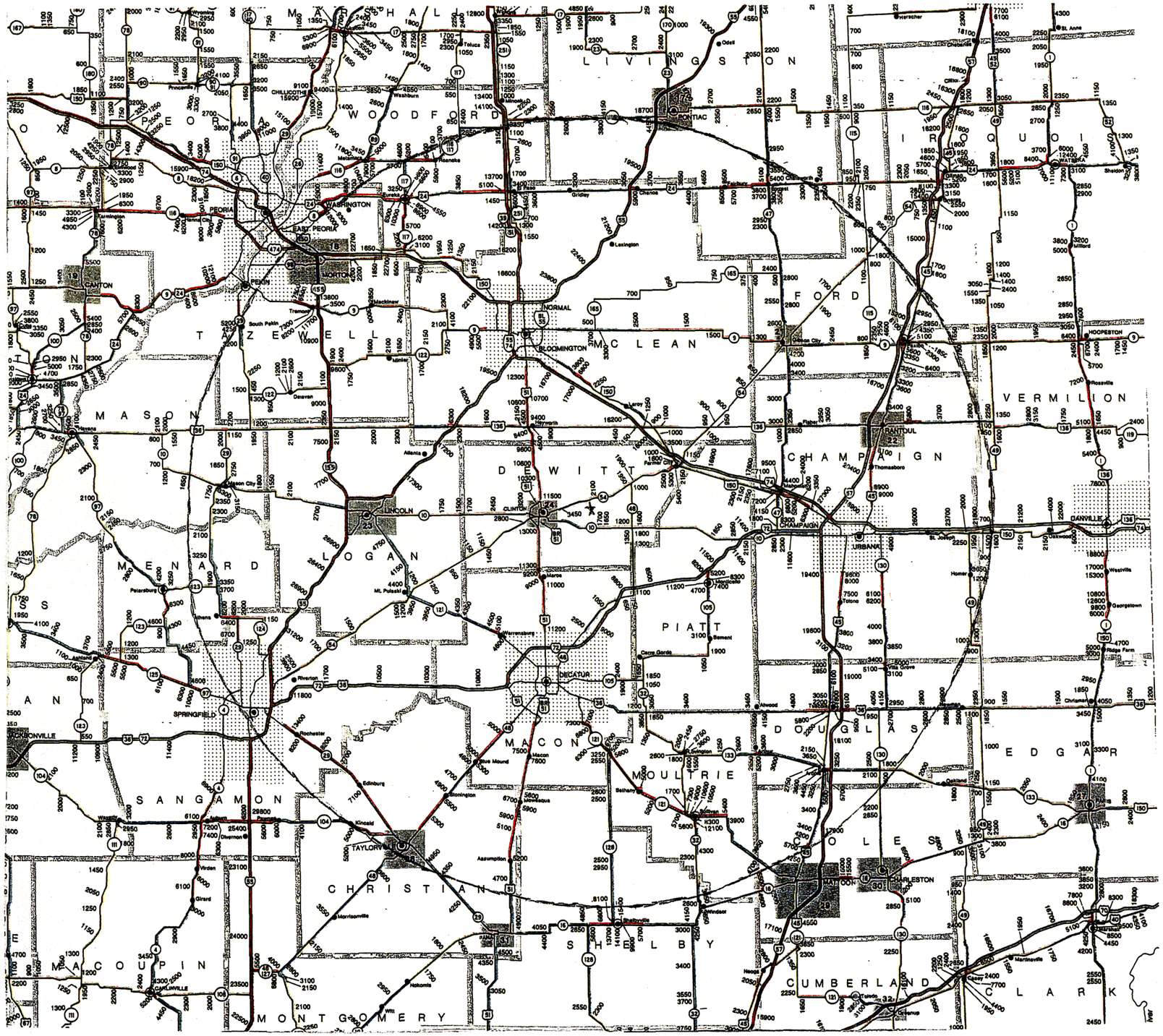


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-12

CUMULATIVE POPULATION DISTRIBUTION

REVISION 8
AUGUST 1999



1995 AVERAGE DAILY TOTAL TRAFFIC

TRAFFIC VOLUME GROUPS

900	2400	4900	9000
0-999	1000-2499	2500-4999	5000 AND OVER

ANNUAL AVERAGE
24-HOUR TRAFFIC VOLUMES

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

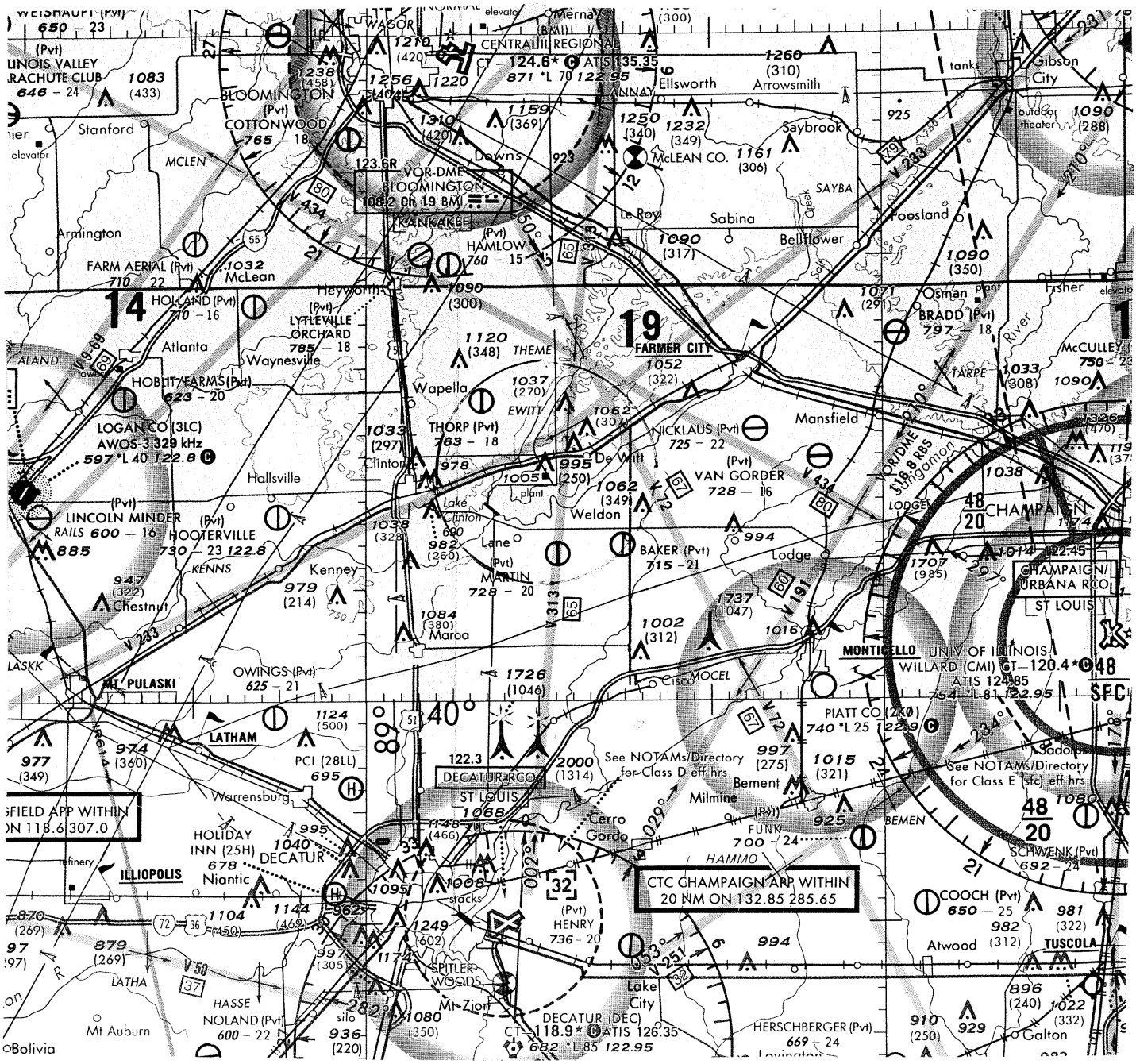
FIGURE 2.2-1

HIGHWAY TRANSPORTATION NETWORK AND TRAFFIC VOLUME OF DEWITT COUNTY AND ROUTES WITHIN 50 MILES OF THE SITE

FIGURE 2.2-2

HAS BEEN DELETED

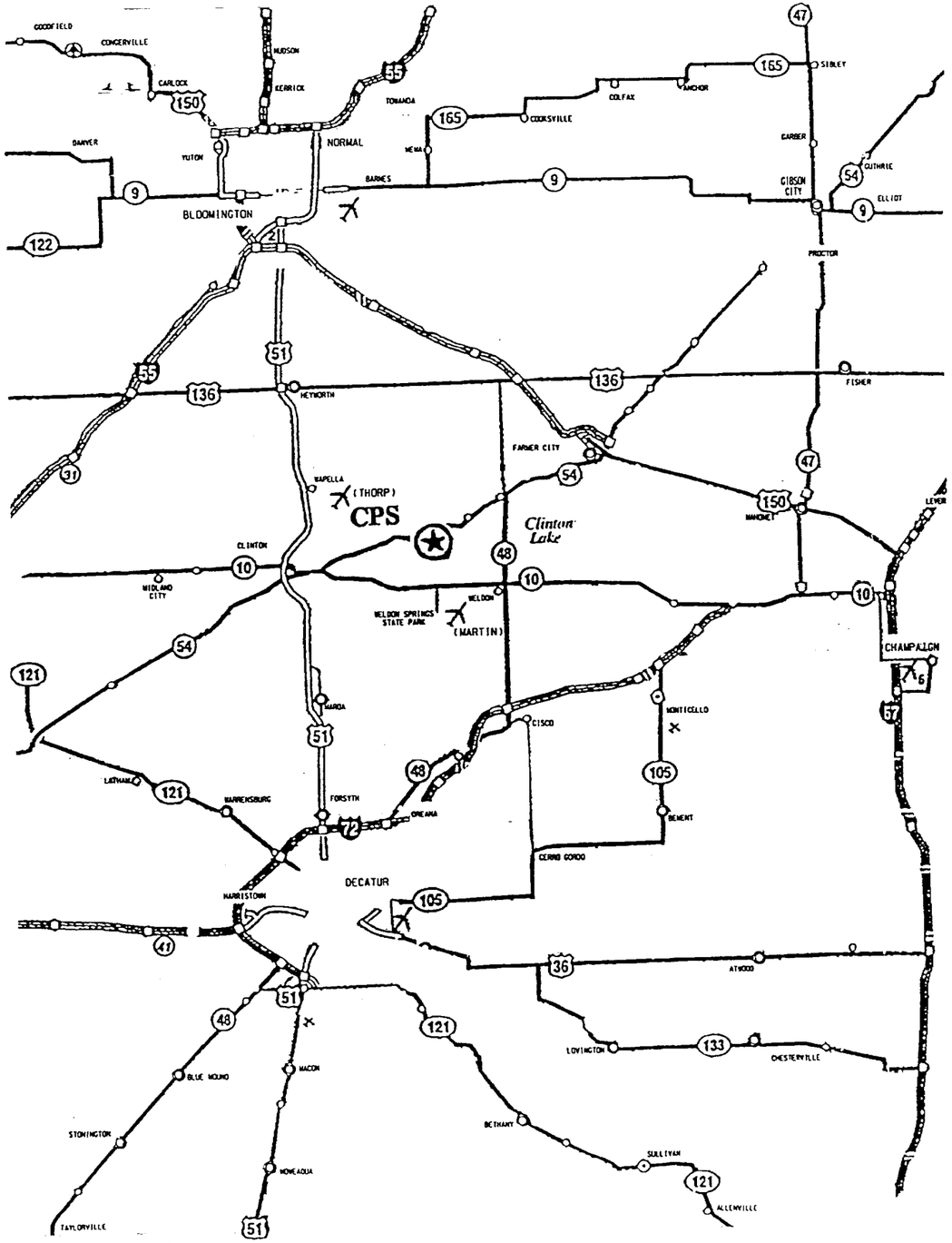
Revision 10
October 2002



CLINTON POWER STATION

FIGURE 2.2-3
CHART OF LOW ALTITUDE
FEDERAL AIRWAYS

REVISION 10
OCTOBER 2001



AIRPORTS WITHIN 5 MILES OF CPS AND SURROUNDING COMMERCIAL AIRPORTS

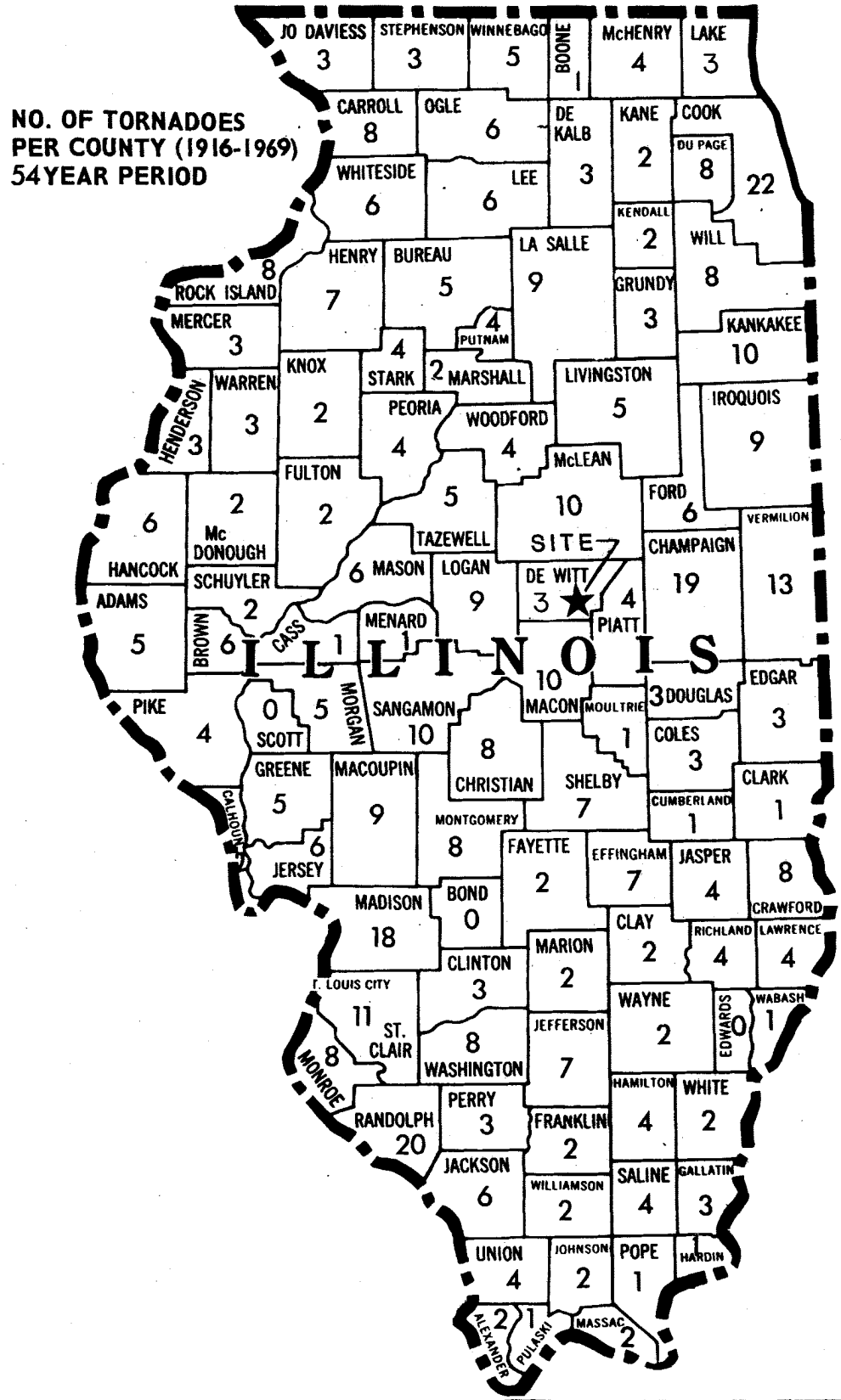
AIRPORT	DISTANCE & DIRECTION FROM STATION	LAYOUT
SPENCER (RLA)*	1.8 MILES WSW	
MARTIN (RLA)(PRIVATE)	4.5 MILES S	(1) 2000 FT. RUNWAY
THORP (RLA)(PRIVATE)	4.75 MILES NW	(2) 1800 FT. TURF RUNWAYS EAST TO WEST/NORTH TO SOUTH
BAKER (RLA)(PRIVATE)	5.0 MILES SE	(1) 2100 FT. TURF RUNWAY NORTH-SOUTH
BLOOMINGTON/NORMAL	22.5 MILES NNW	(11-29) 6500 FT. CONCRETE RUNWAY EAST TO WEST (2-20) 7000 FT. CONCRETE RUNWAY SOUTH TO NORTH
DECATUR	22.5 MILES S	(6-24) 8500 FT. CONCRETE RUNWAY NORTHEAST TO SOUTHWEST (12-30) 6800 FT. CONCRETE RUNWAY NORTHWEST TO SOUTHEAST (18-36) 5300 FT. CONCRETE RUNWAY NORTH - SOUTH

* This airport is now owned by Illinois Power Company and is no longer operational.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.2-4

LOCATIONS AND LAYOUTS OF AIRPORTS WITHIN 5 MILES OF CPS AND DECATUR AND BLOOMINGTON AIRPORTS



CLINTON POWER STATION
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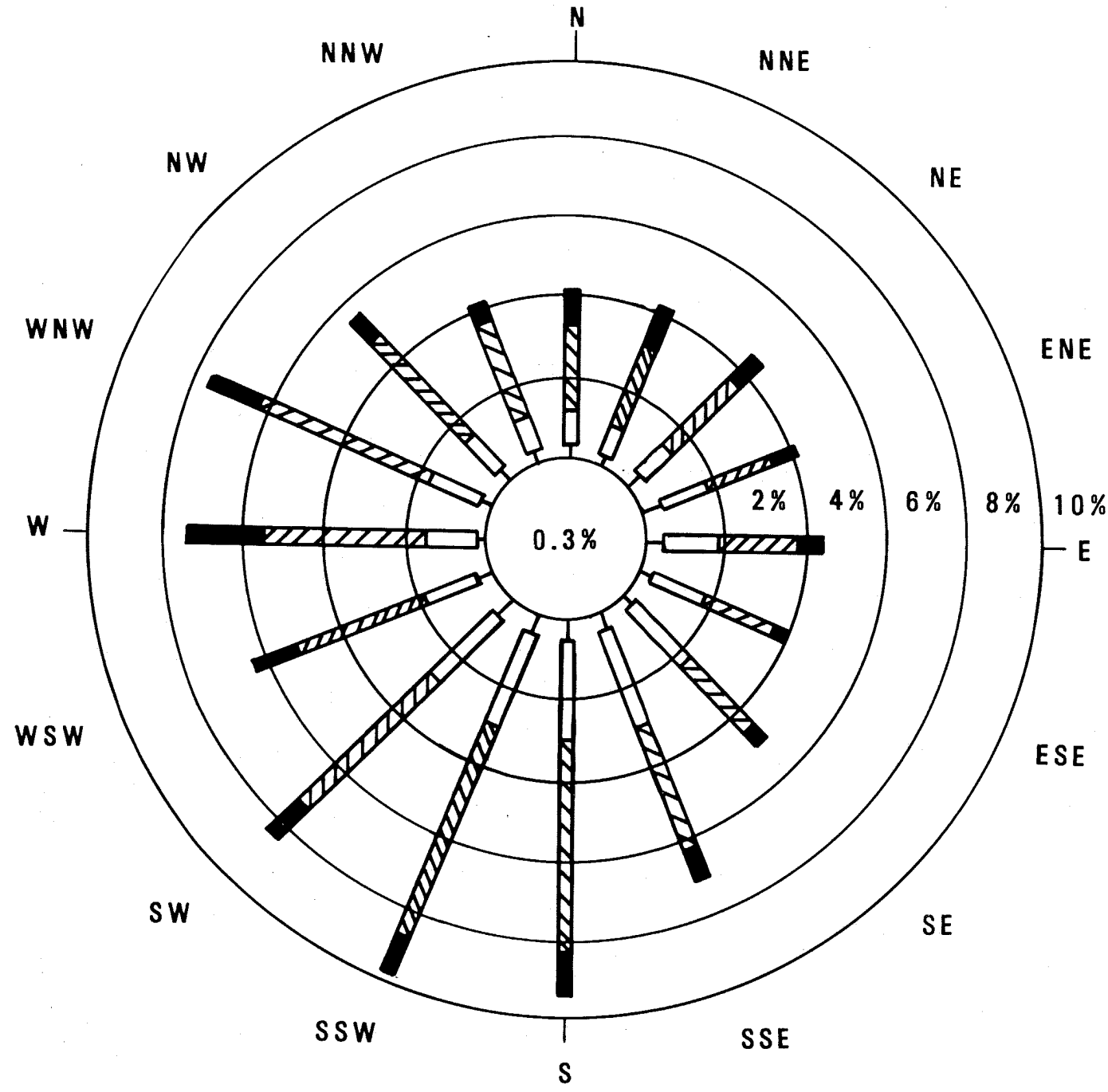
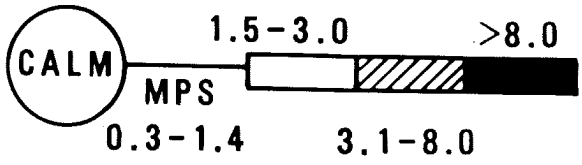
FIGURE 2.3-1

NUMBER OF TORNADOES PER COUNTY
(1916-1969) 54 YEAR PERIOD

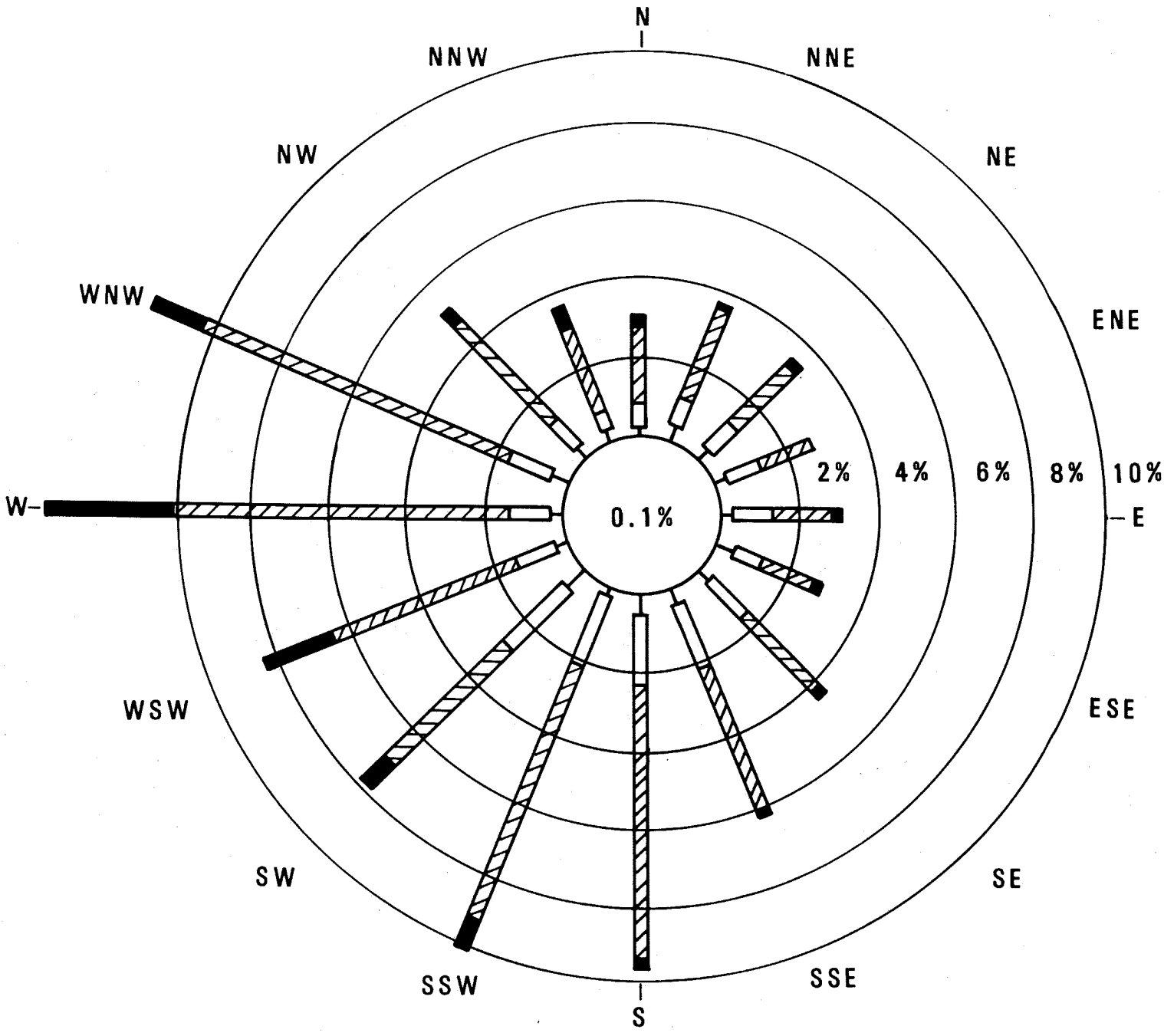


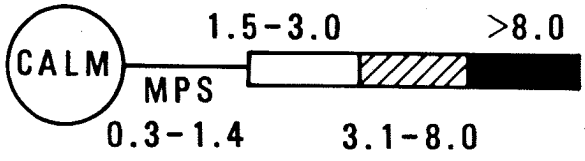


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-2

WIND ROSE, 10 METER LEVEL, CLINTON POWER STATION SITE, PERIOD OF RECORD

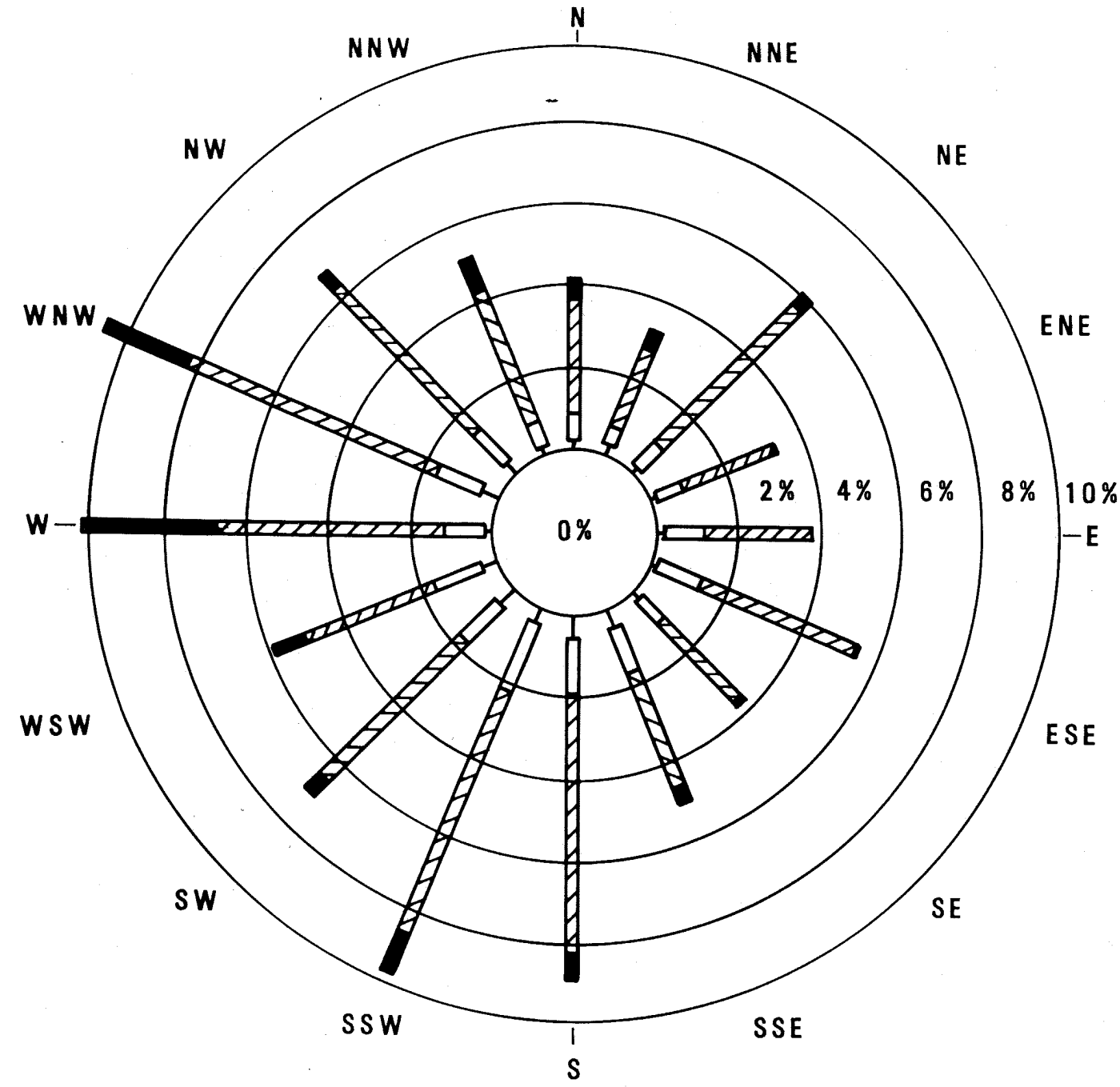


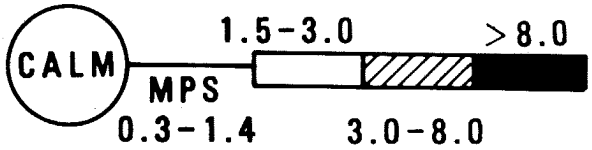


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-3

WIND ROSE, 10 METER LEVEL, CLINTON POWER STATION SITE, COMPOSITE JANUARY

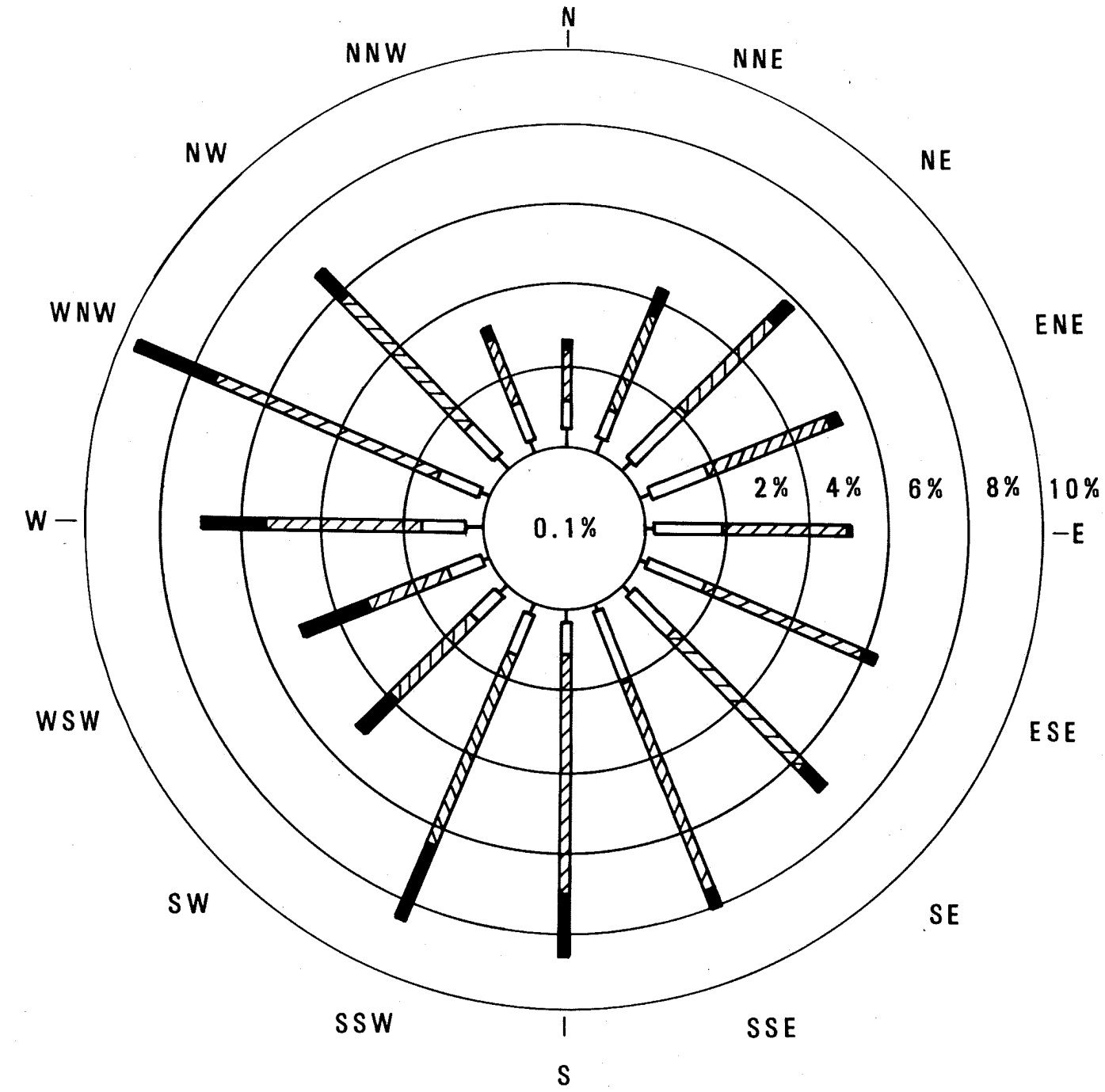


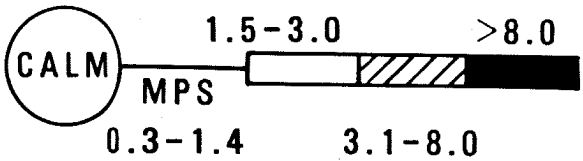


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-4

WIND ROSE, 10 METER LEVEL, CLINTON POWER STATION SITE, COMPOSITE FEBRUARY

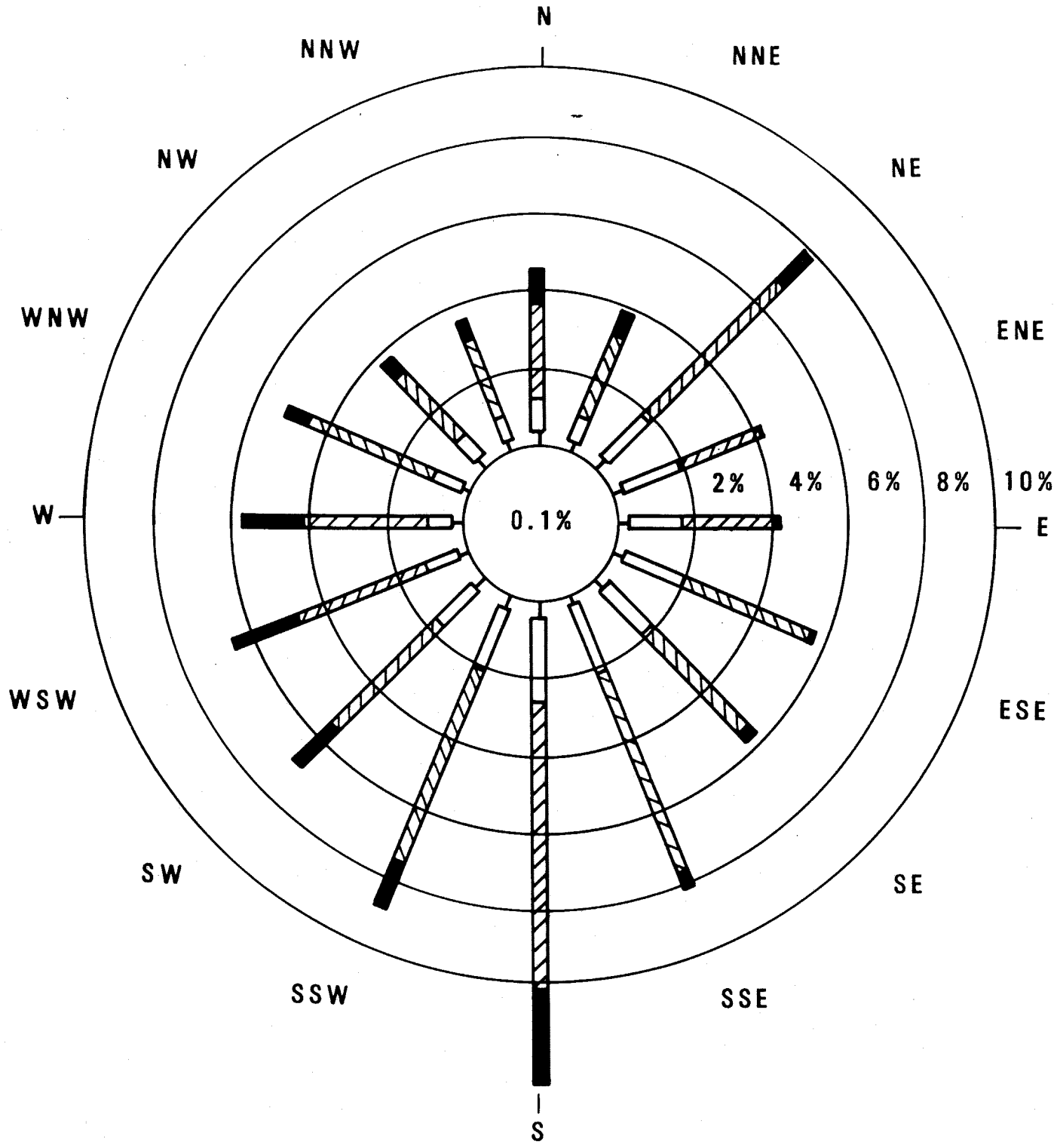


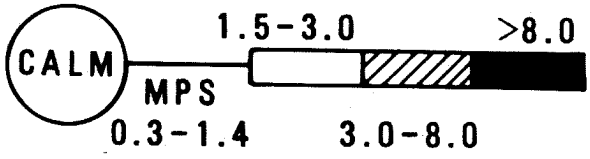


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-5

WIND ROSE, 10 METER LEVEL, CLINTON POWER STATION SITE, COMPOSITE MARCH

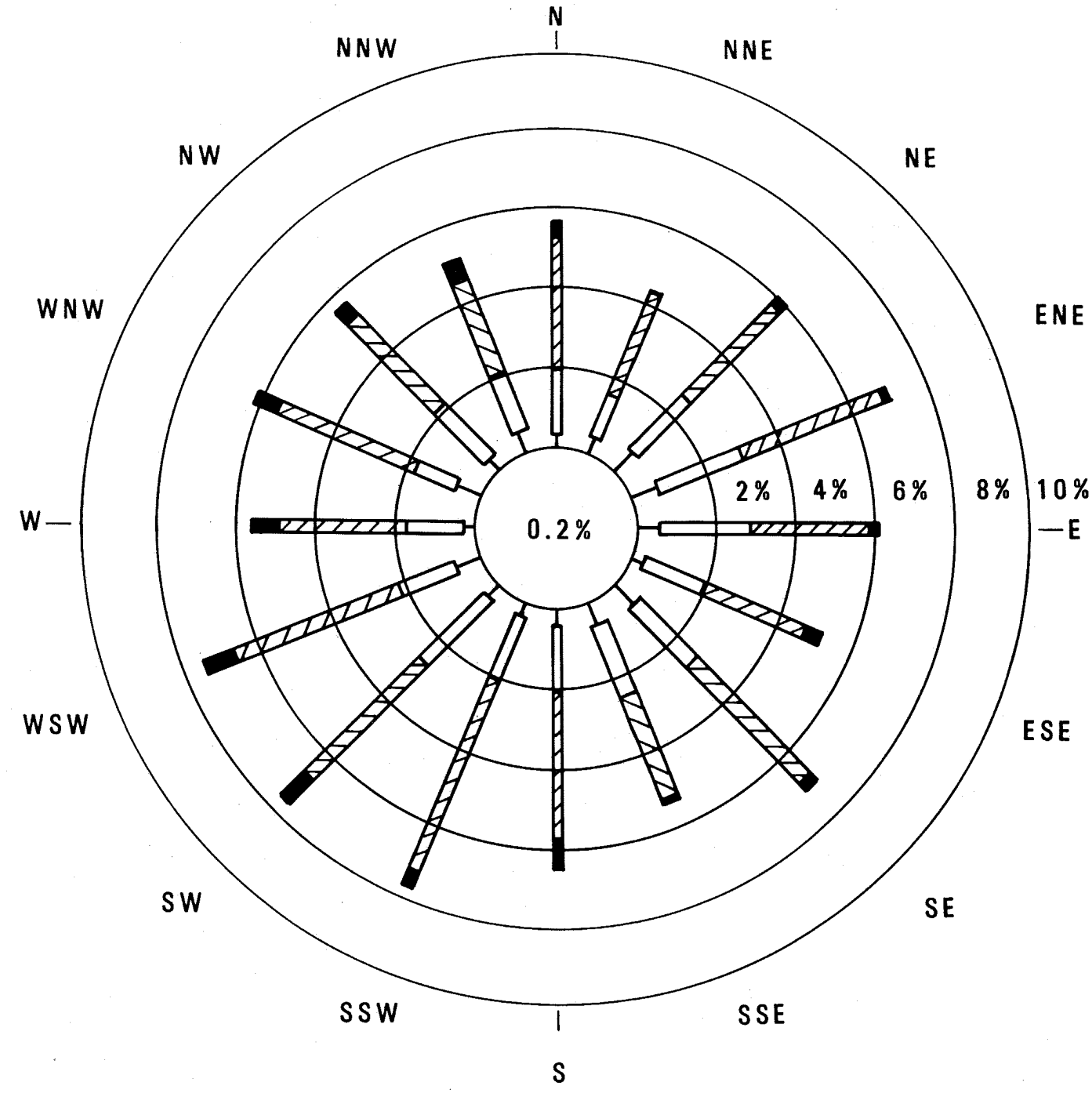


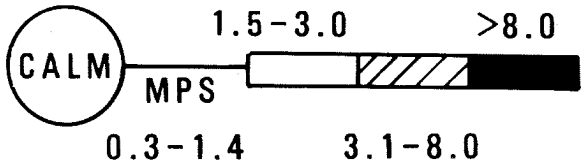


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-6

WIND ROSE, 10 METER LEVEL, CLINTON POWER STATION SITE, COMPOSITE APRIL

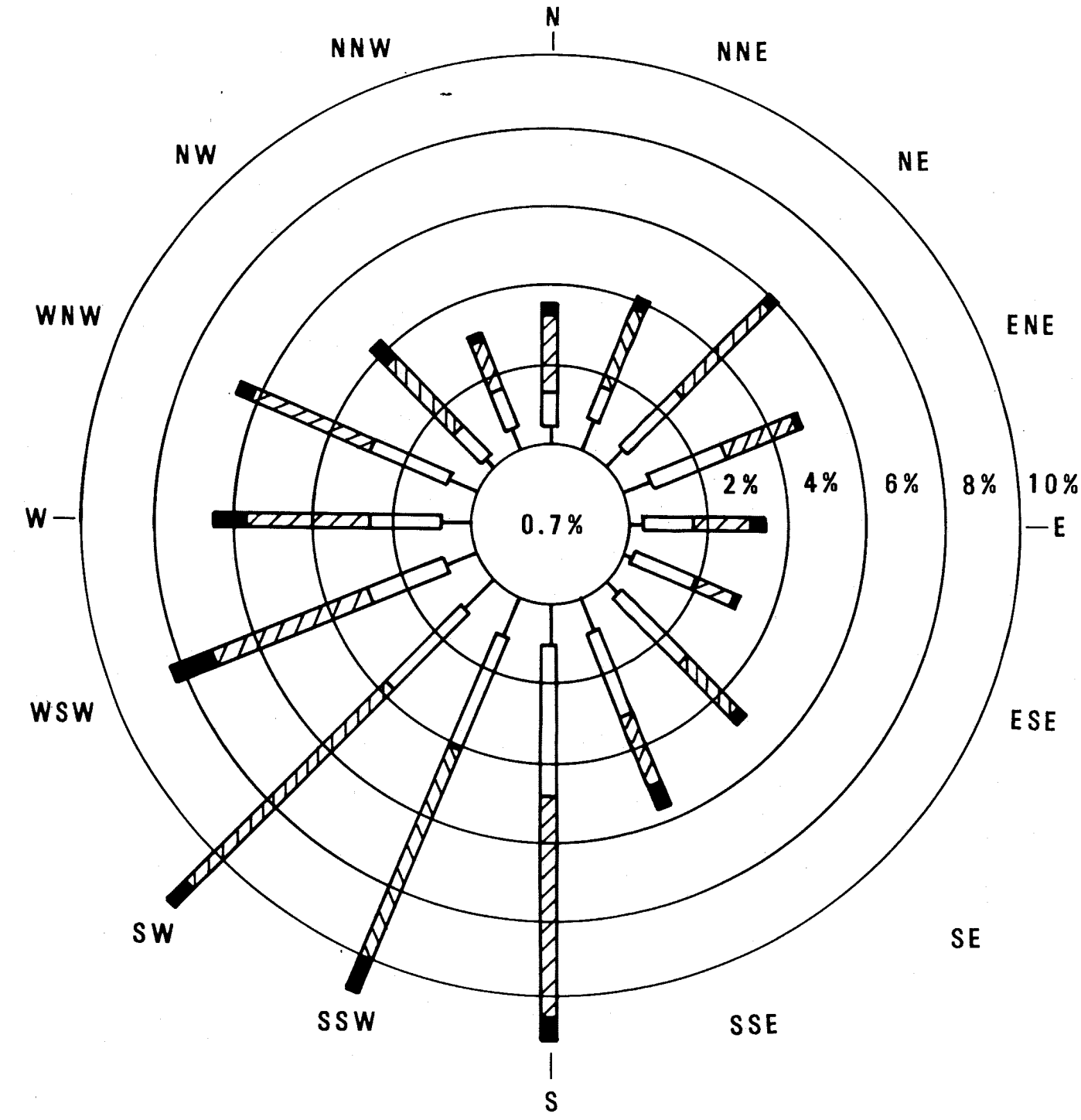


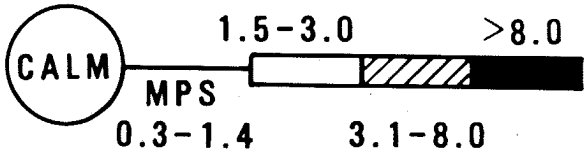


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-7

WIND ROSE, 10 METER LEVEL, CLINTON POWER STATION SITE, COMPOSITE MAY

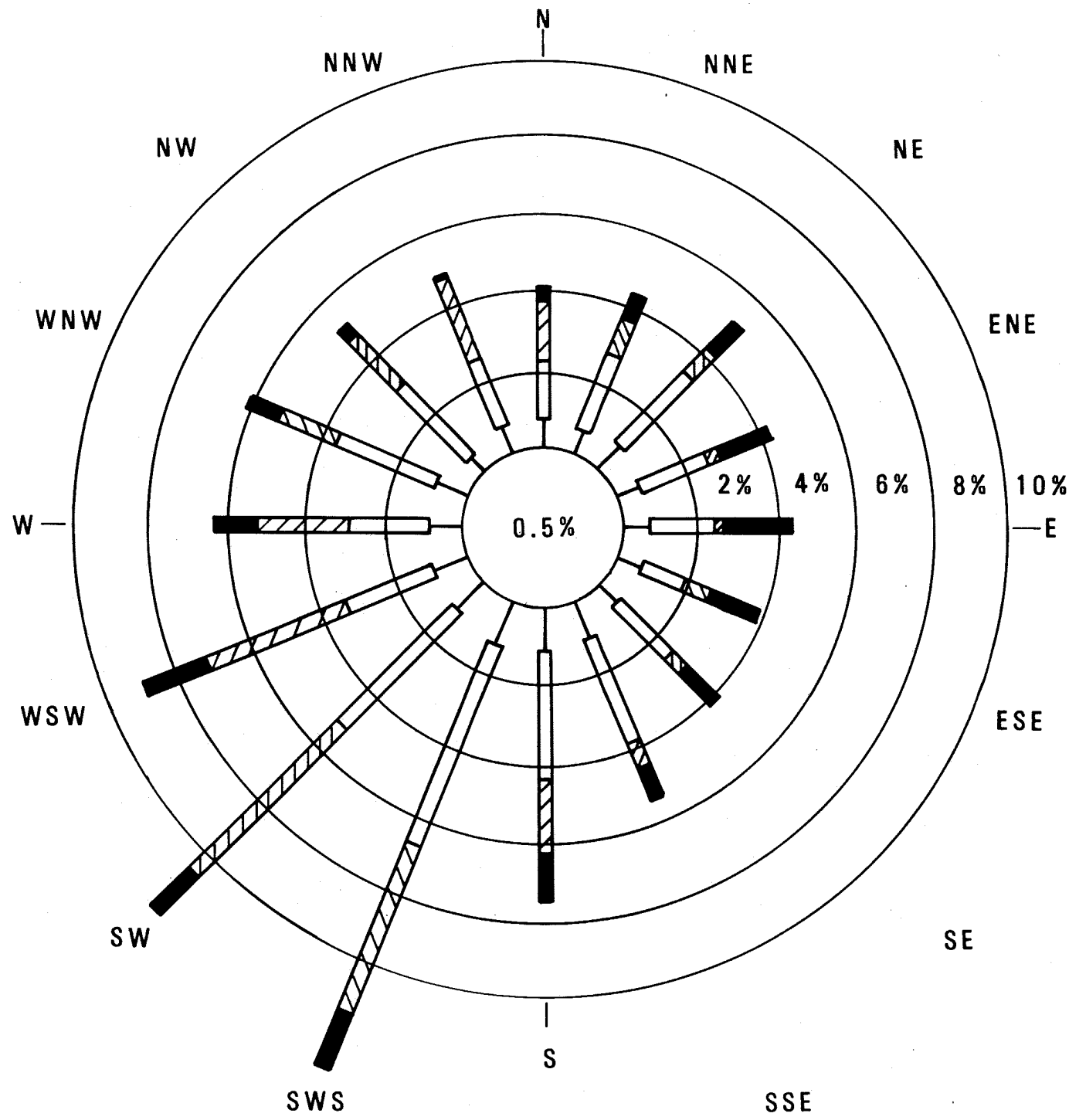


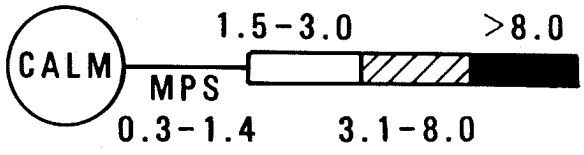


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-8

WIND ROSE, 10 METER LEVEL, CLINTON POWER STATION SITE, COMPOSITE JUNE

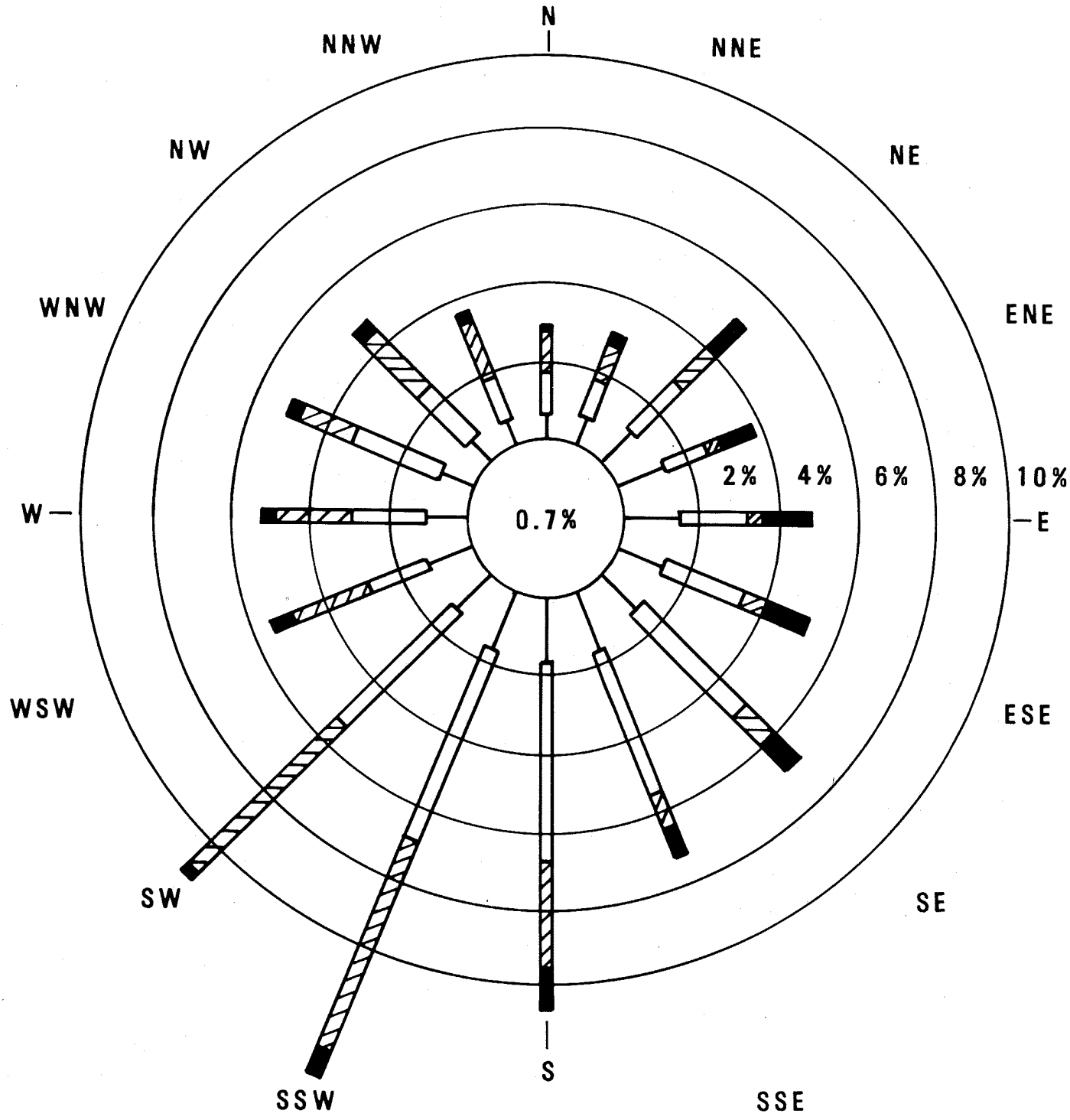


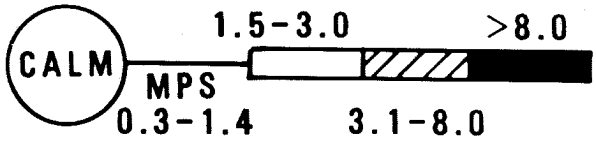


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-9

WIND ROSE, 10 METER LEVEL, CLINTON POWER STATION SITE, COMPOSITE JULY

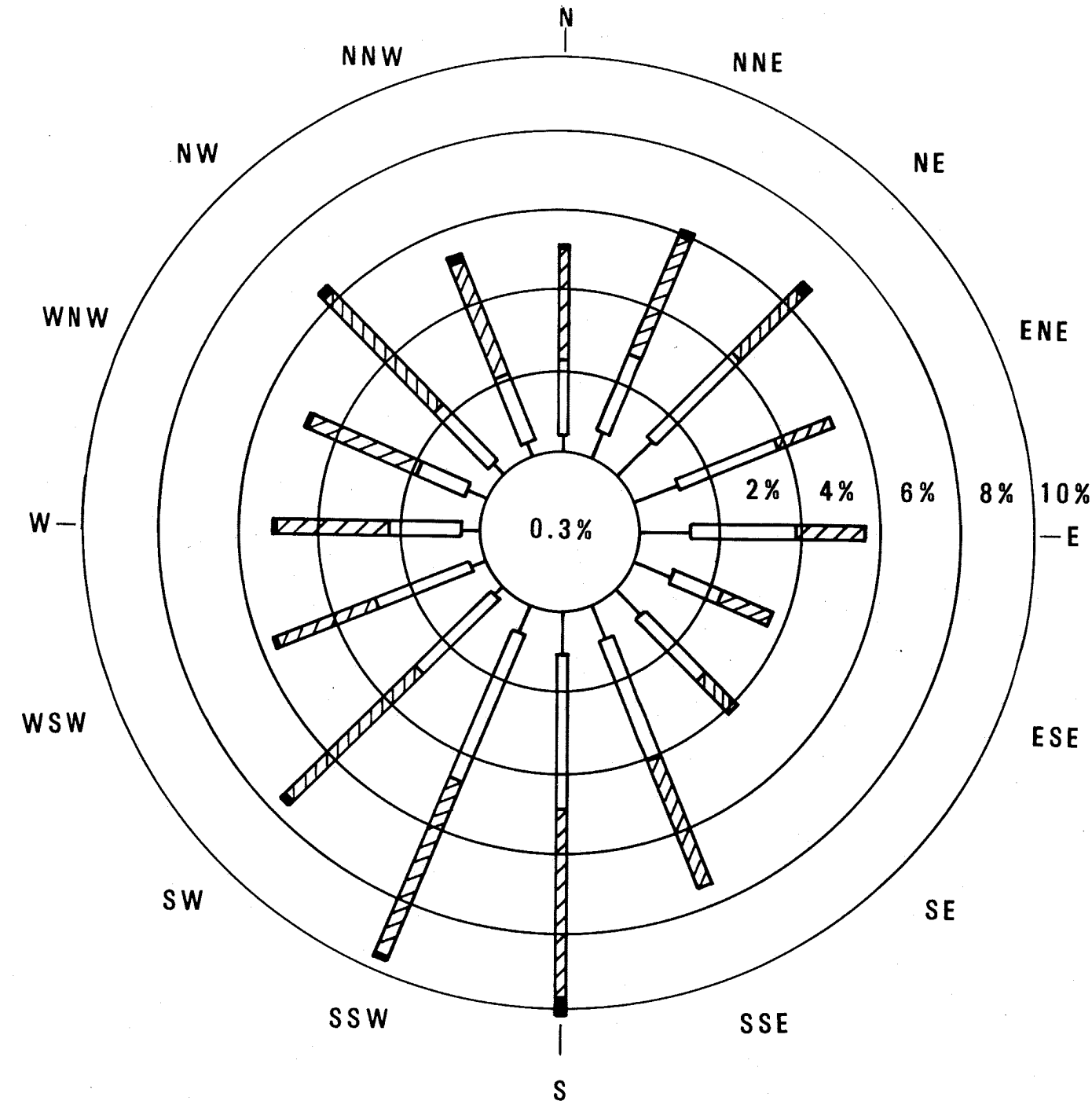


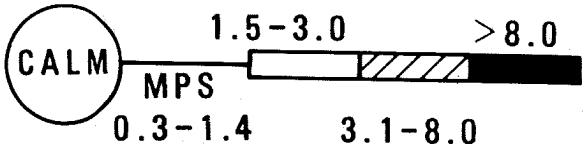


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-10

WIND ROSE, 10 METER LEVEL, CLINTON POWER STATION SITE, COMPOSITE AUGUST

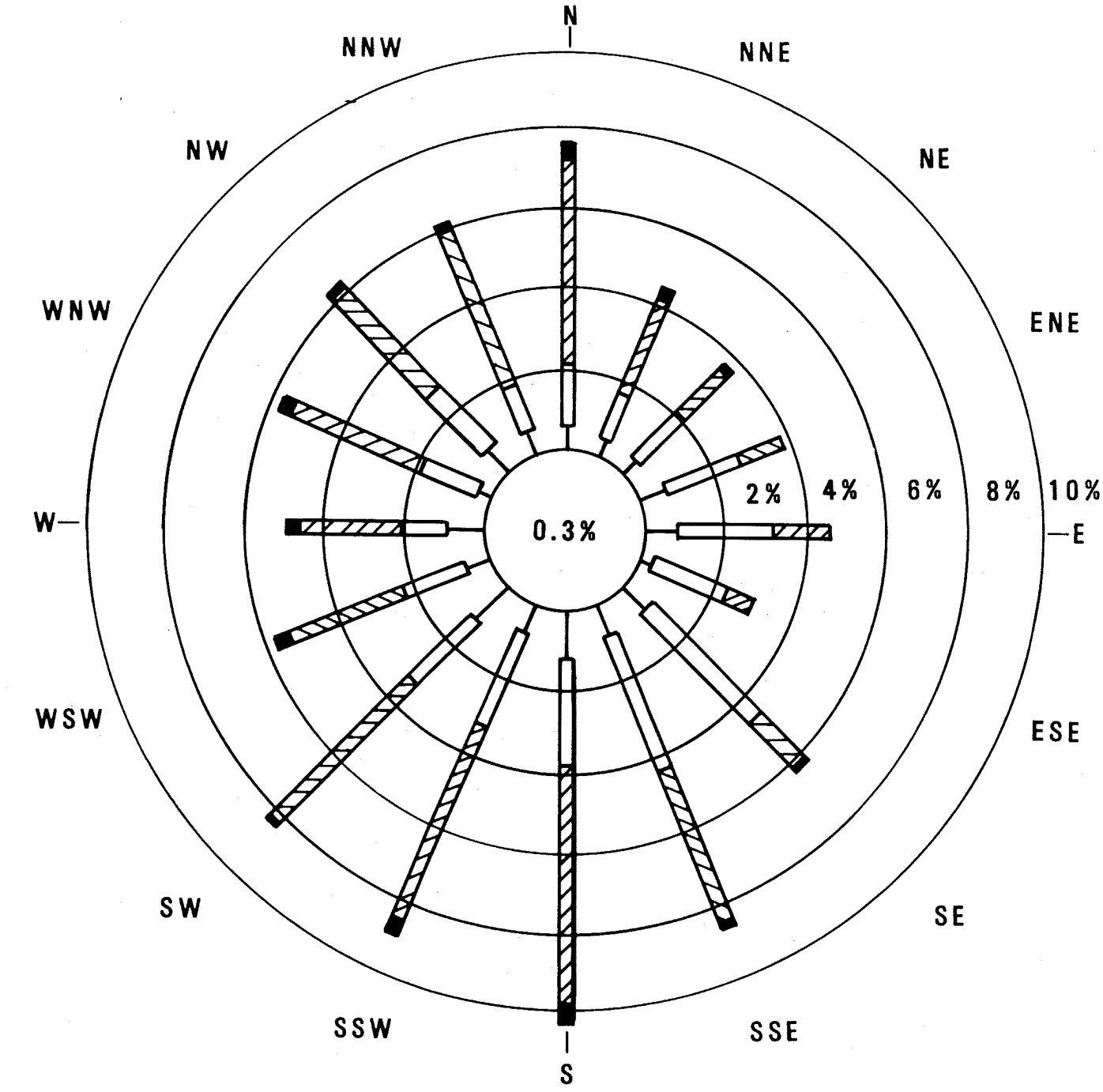


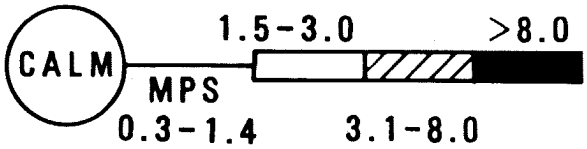


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-11

WIND ROSE, 10 METER LEVEL, CLINTON POWER STATION SITE, COMPOSITE SEPTEMBER

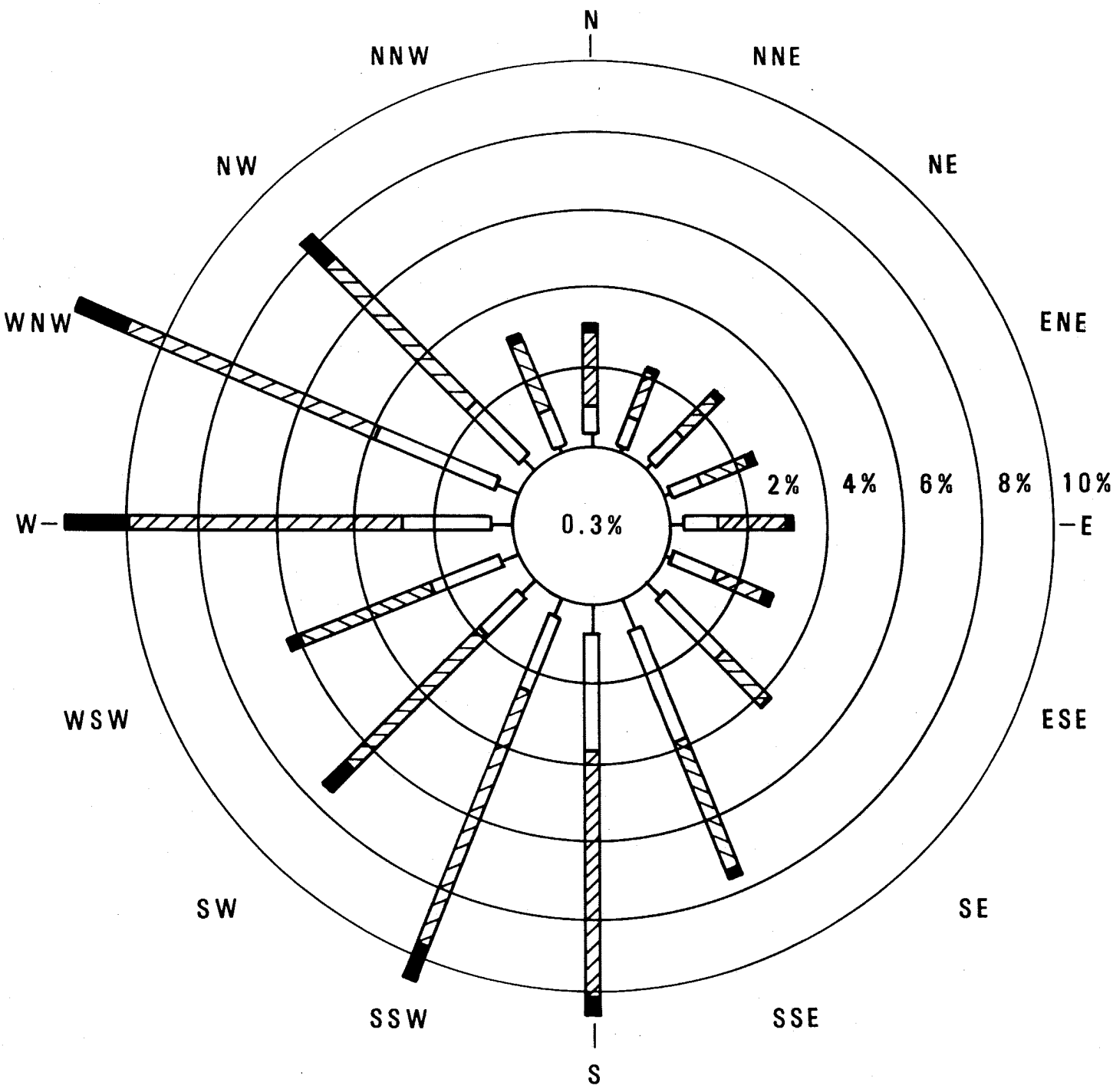


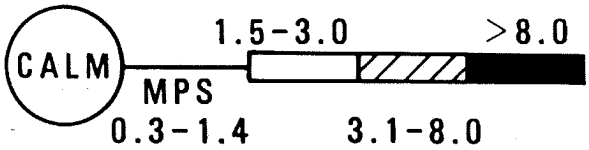


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-12

WIND ROSE, 10 METER LEVEL, CLINTON POWER STATION SITE, COMPOSITE OCTOBER

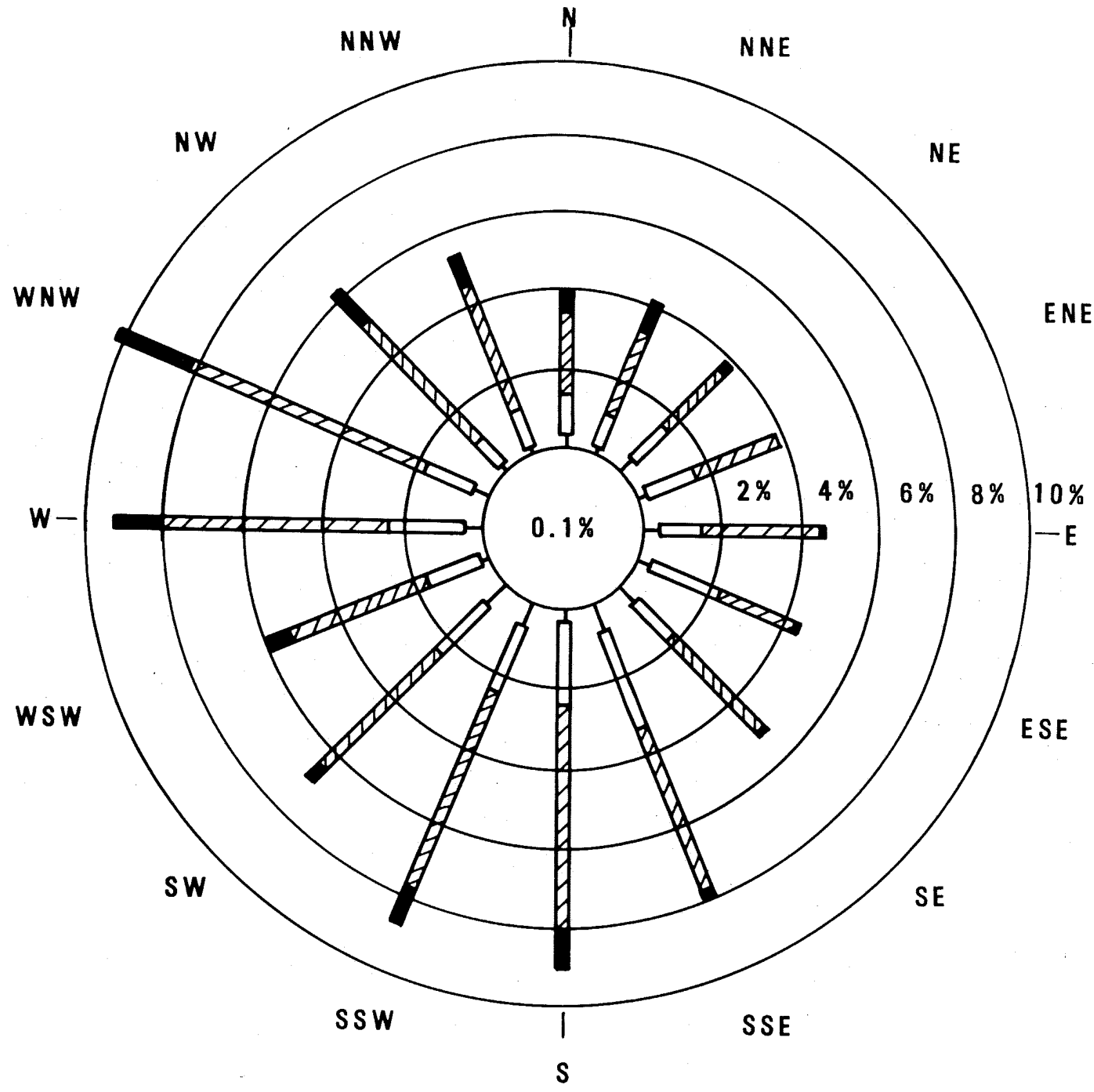


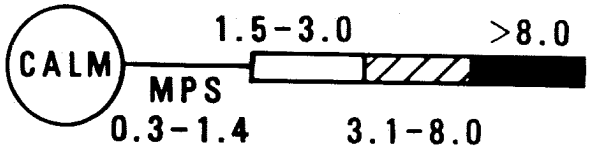


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-13

WIND ROSE, 10 METER LEVEL, CLINTON POWER STATION SITE, COMPOSITE NOVEMBER





CLINTON POWER STATION
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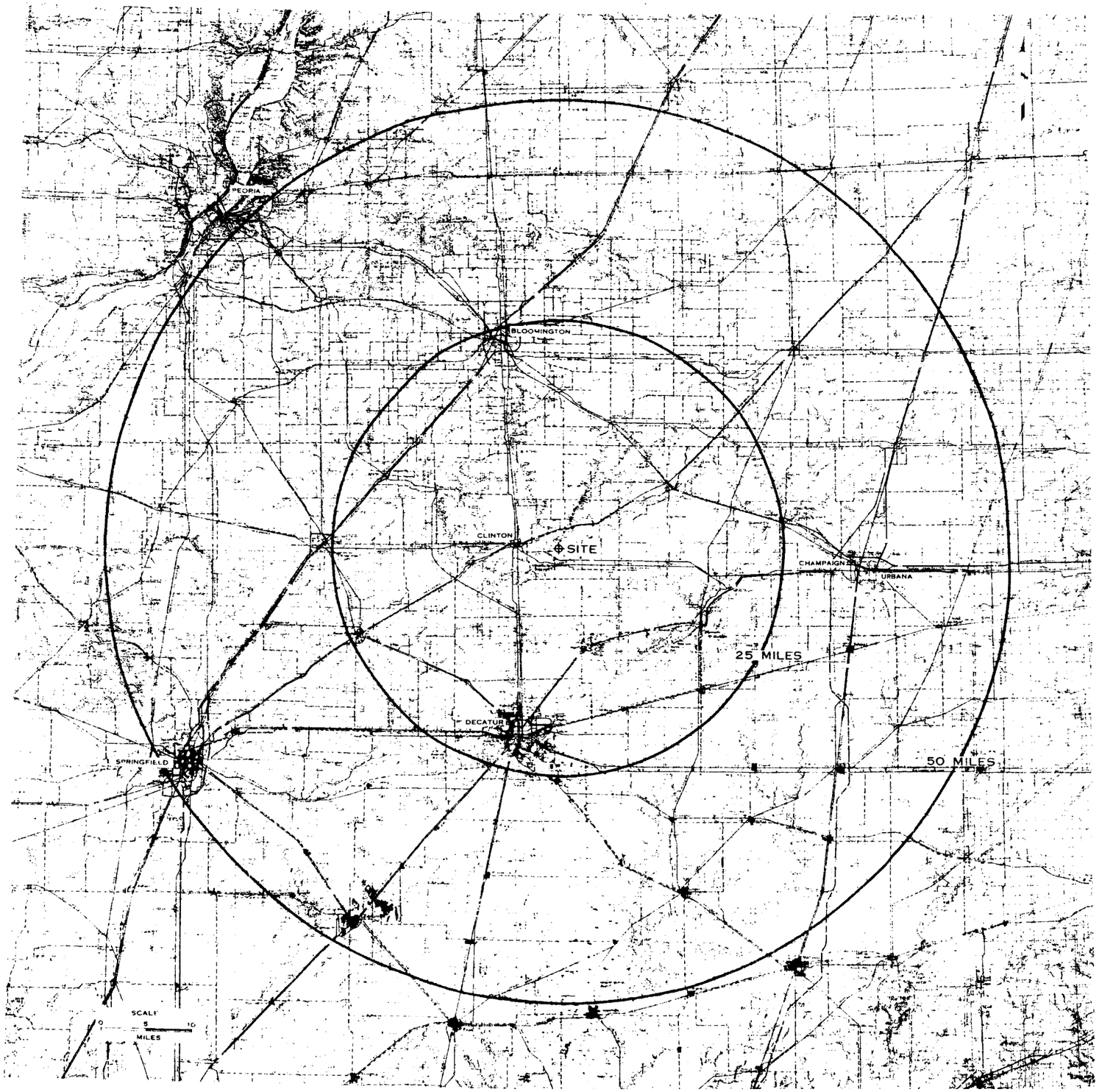
FIGURE 2.3-14

WIND ROSE, 10 METER LEVEL, CLINTON POWER STATION SITE, COMPOSITE DECEMBER



CLINTON POWER STATION
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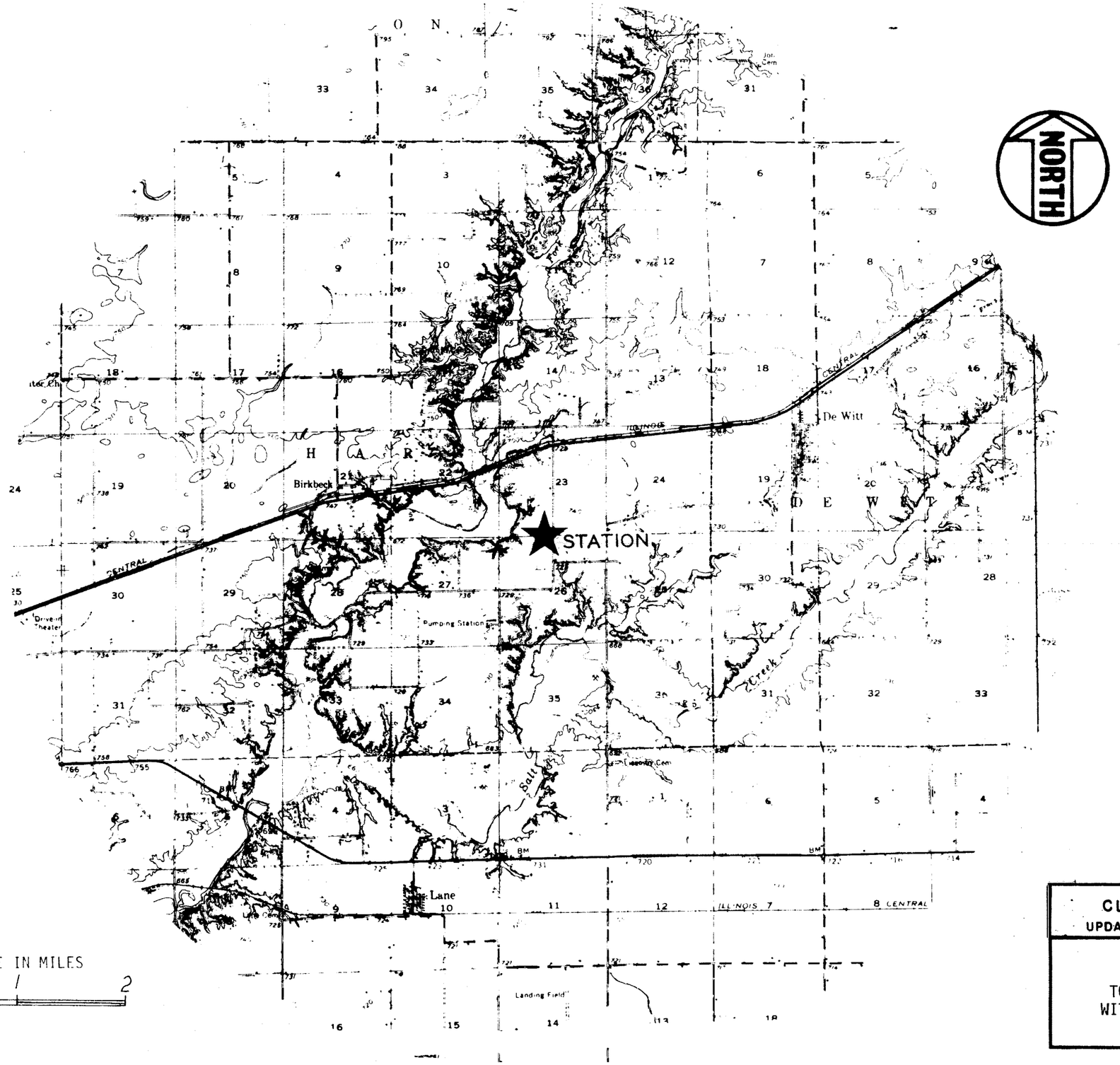
FIGURE 2.3-15

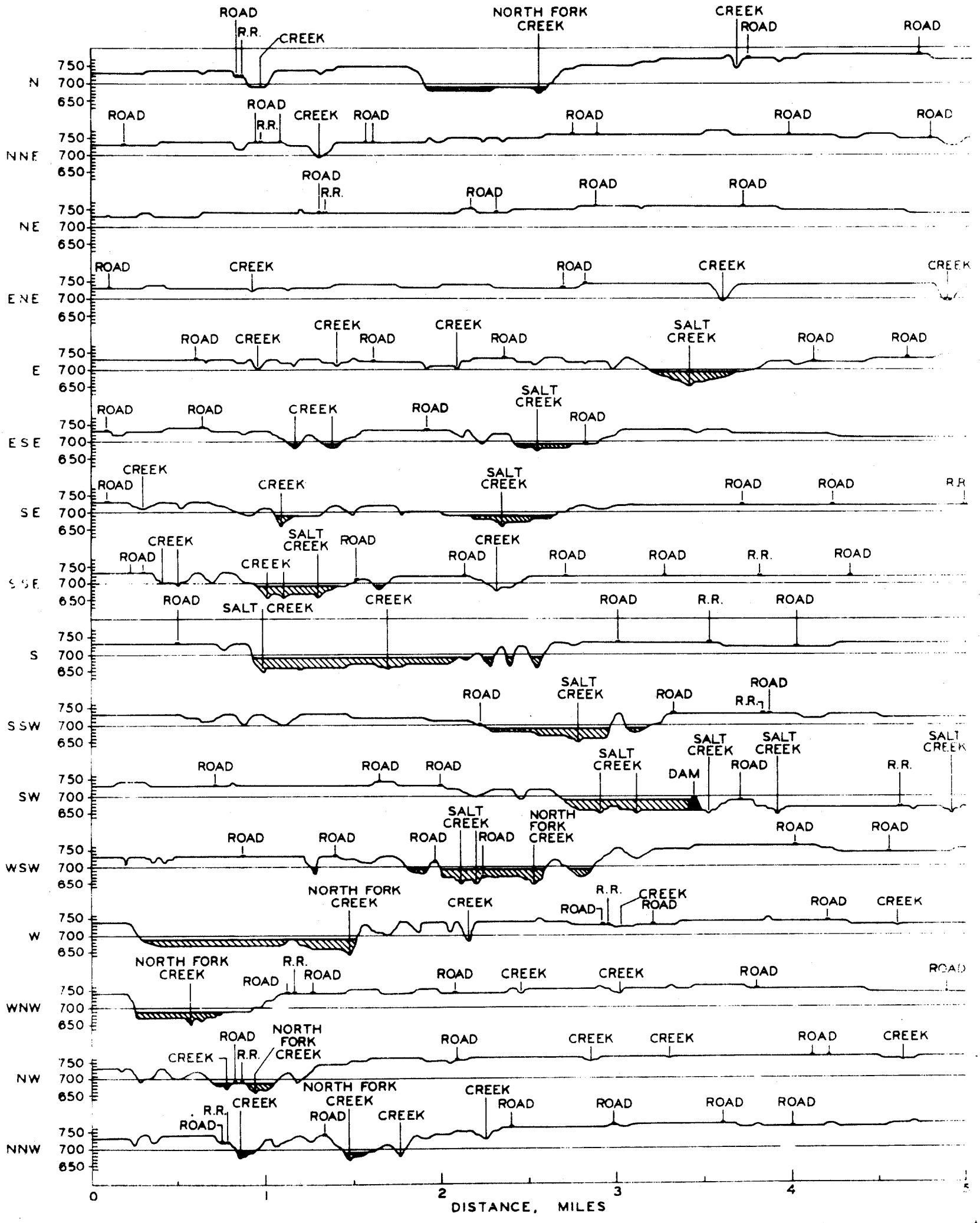
TOPOGRAPHIC MAP OF THE AREA
WITHIN 50 MILES OF THE CLINTON
POWER STATION SITE



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-16

TOPOGRAPHIC MAP OF THE AREA WITHIN 5 MILES OF THE CLINTON POWER STATION SITE

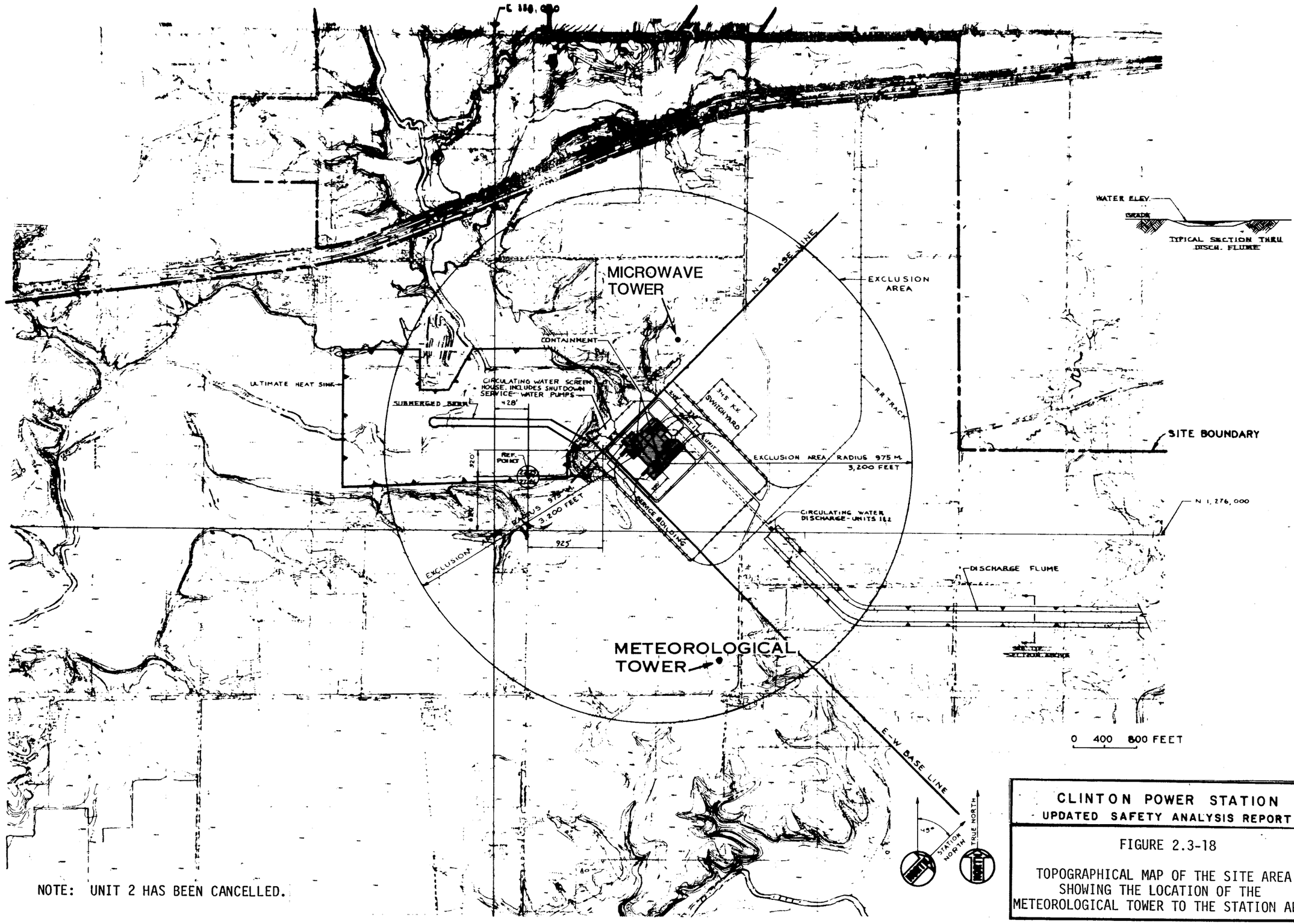


CLINTON POWER STATION

UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-17

TOPOGRAPHICAL CROSS SECTION AS A FUNCTION OF THE DISTANCE FROM THE CLINTON POWER STATION

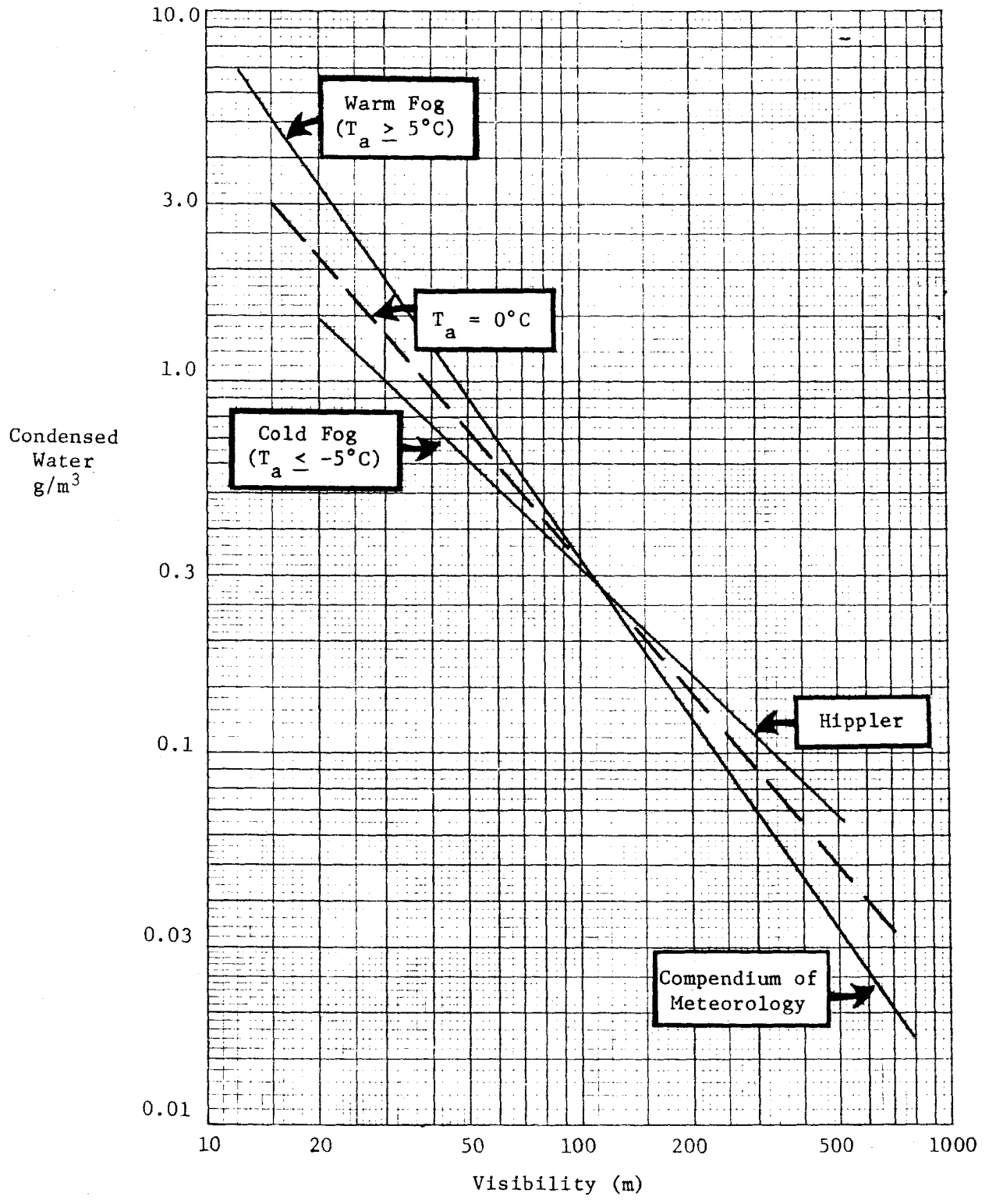


NOTE: UNIT 2 HAS BEEN CANCELLED.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-18

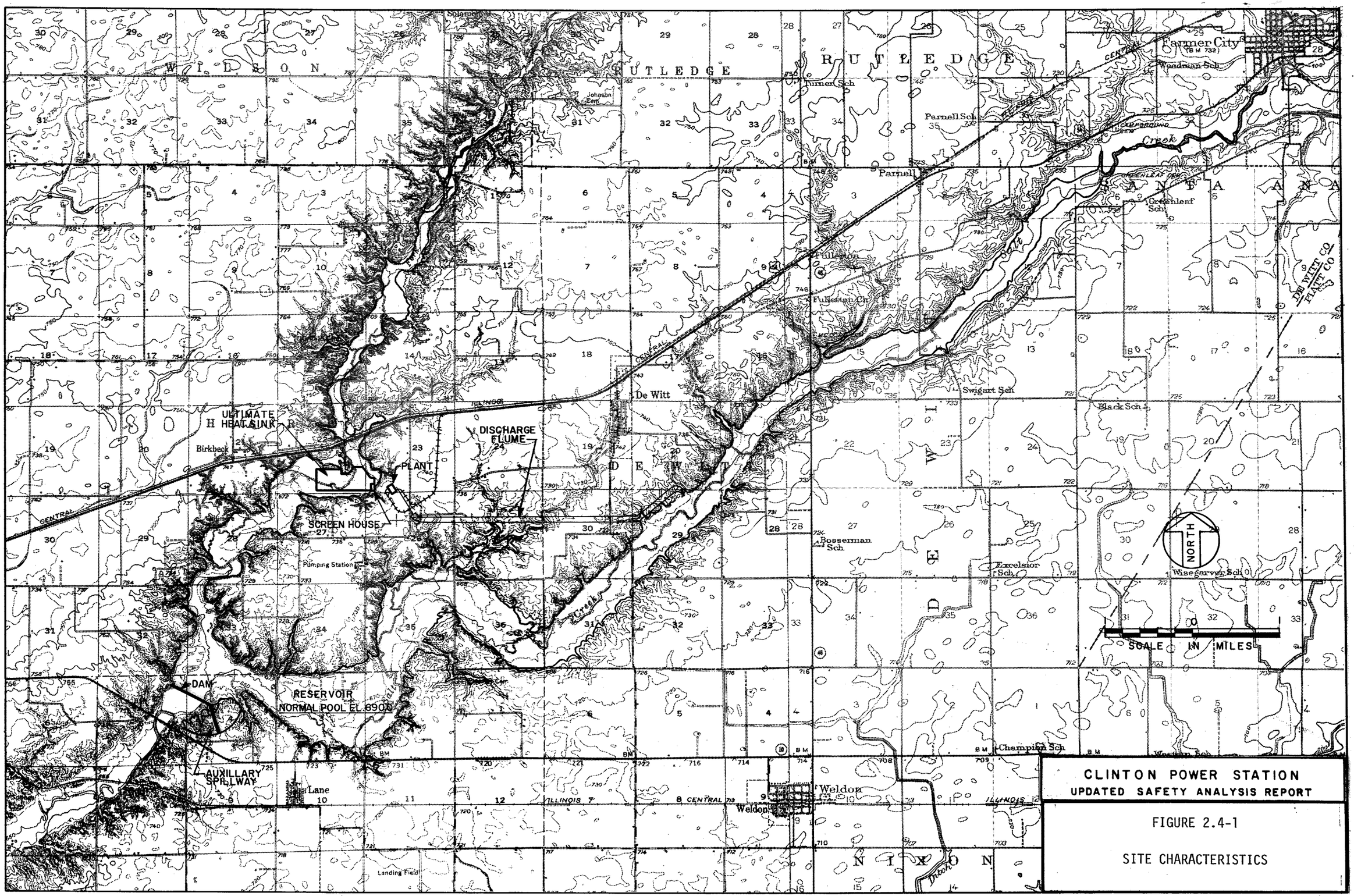
TOPOGRAPHICAL MAP OF THE SITE AREA SHOWING THE LOCATION OF THE METEOROLOGICAL TOWER TO THE STATION AREA



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE A2.3-1

HORIZONTAL VISIBILITY AS A FUNCTION OF CONDENSED WATER VAPOR AND AMBIENT AIR TEMPERATURE



CLINTON POWER STATION
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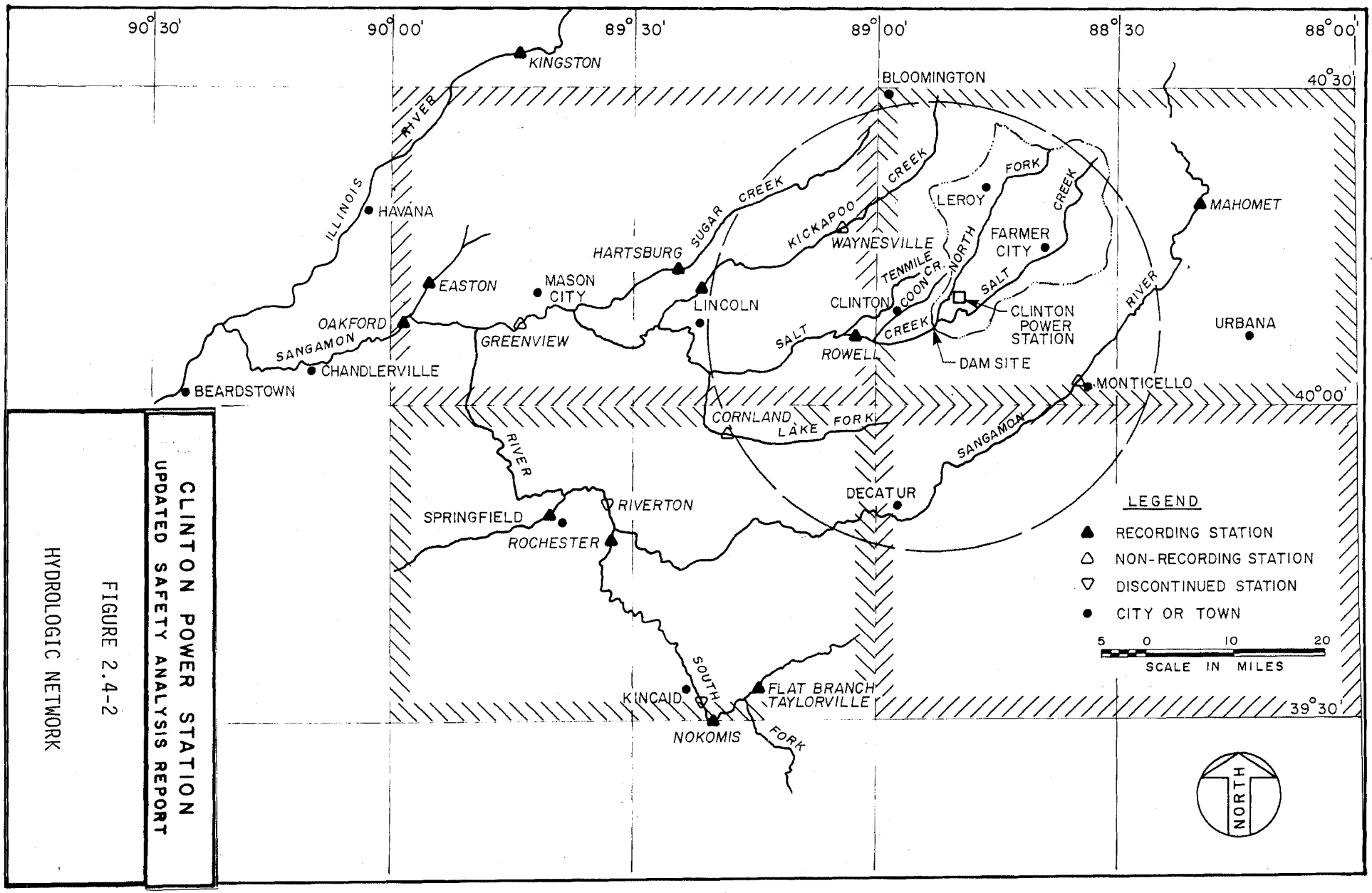
FIGURE 2.4-1

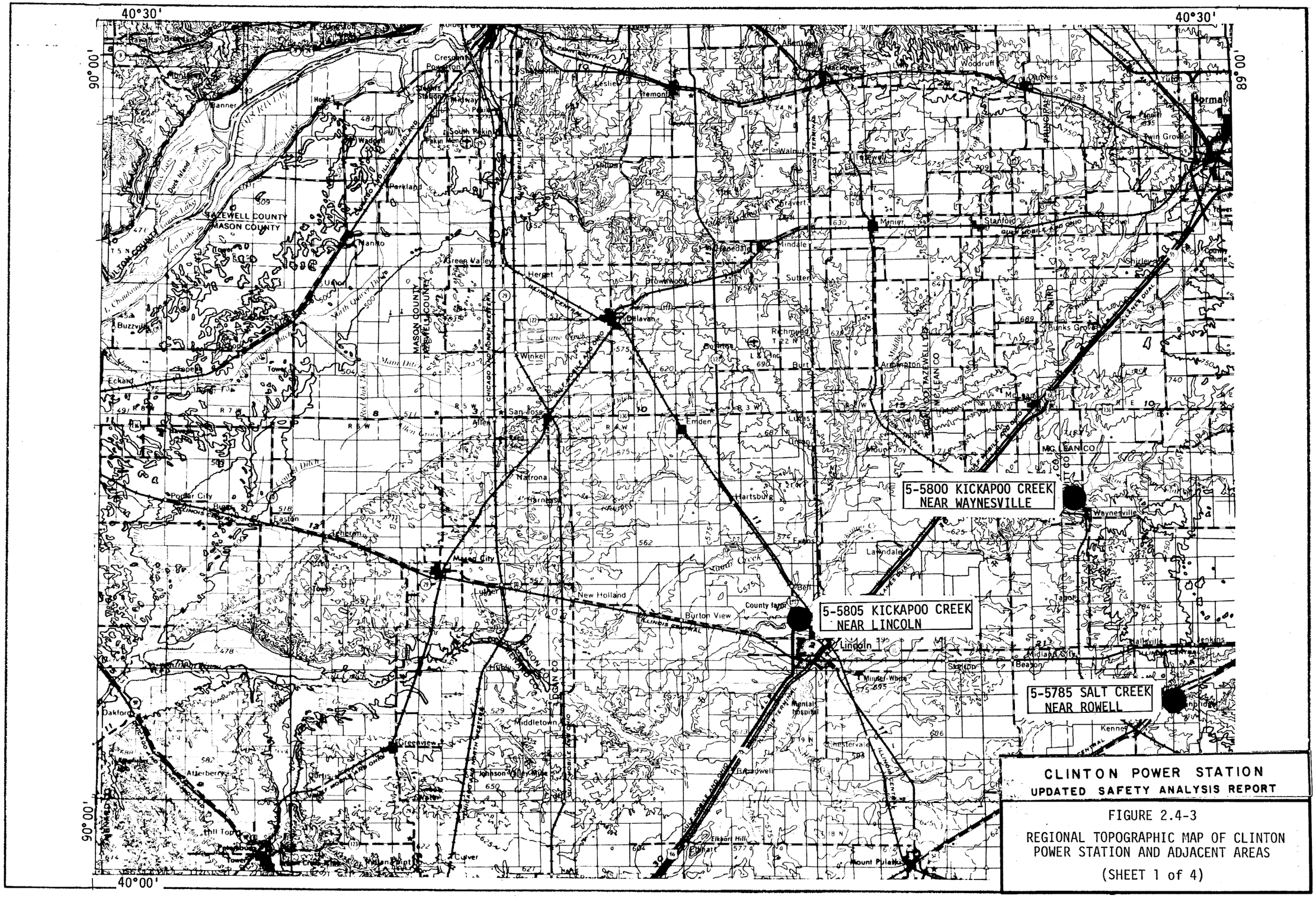
SITE CHARACTERISTICS



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-2

HYDROLOGIC NETWORK



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-3

REGIONAL TOPOGRAPHIC MAP OF CLINTON POWER STATION AND ADJACENT AREAS

(SHEET 1 of 4)

40°30'

89°00'

88°00'

40°00'

BLOOMINGTON

CLINTON POWER STATION

DAM SITE

5-5720 SANGAMON RIVER
NEAR MONTICELLO

CHAMPAIGN

CHANUTE AFB

IROQUOIS COUNTY
FORD COUNTY

FORD COUNTY
CHAMPAIGN COUNTY

MC LEAN CO
DE WITT CO
PIATT CO

NORFOLK AND WESTERN
ILLINOIS CENTRAL
PENN CENTRAL

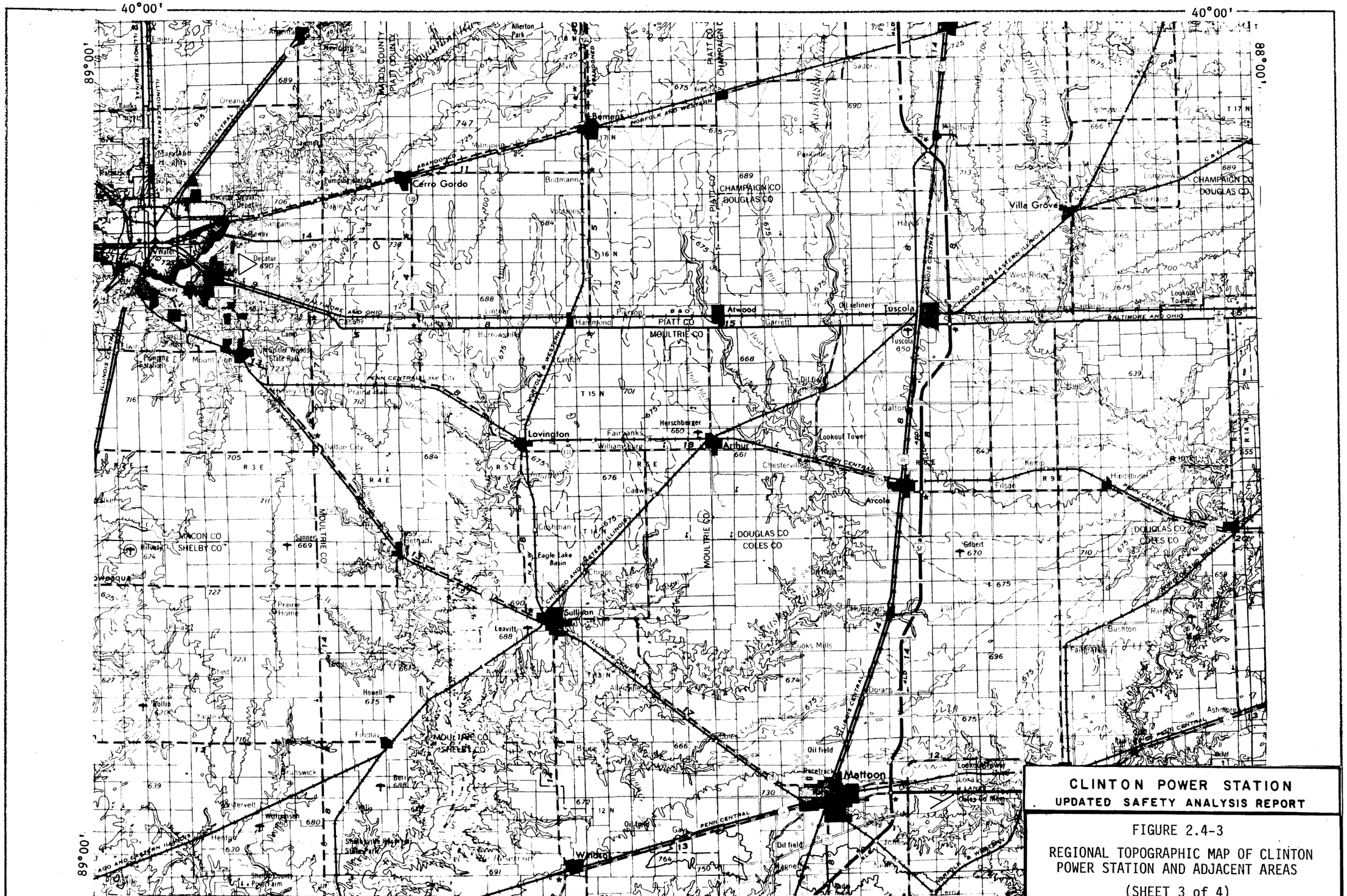
1 300 000 FEET (WEST)

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-3

REGIONAL TOPOGRAPHIC MAP OF CLINTON POWER STATION AND ADJACENT AREAS

(SHEET 2 of 4)

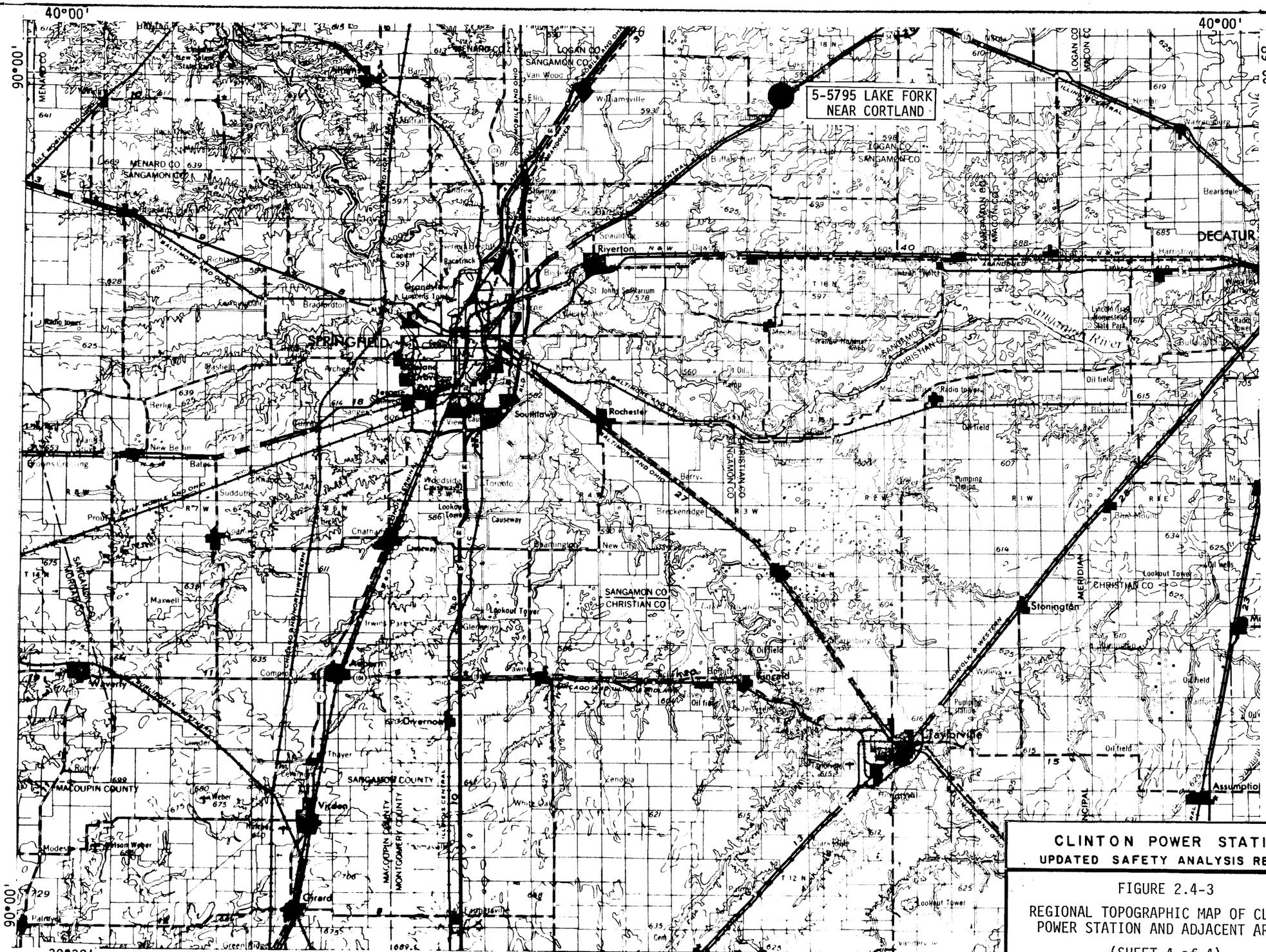


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-3

REGIONAL TOPOGRAPHIC MAP OF CLINTON POWER STATION AND ADJACENT AREAS

(SHEET 3 of 4)

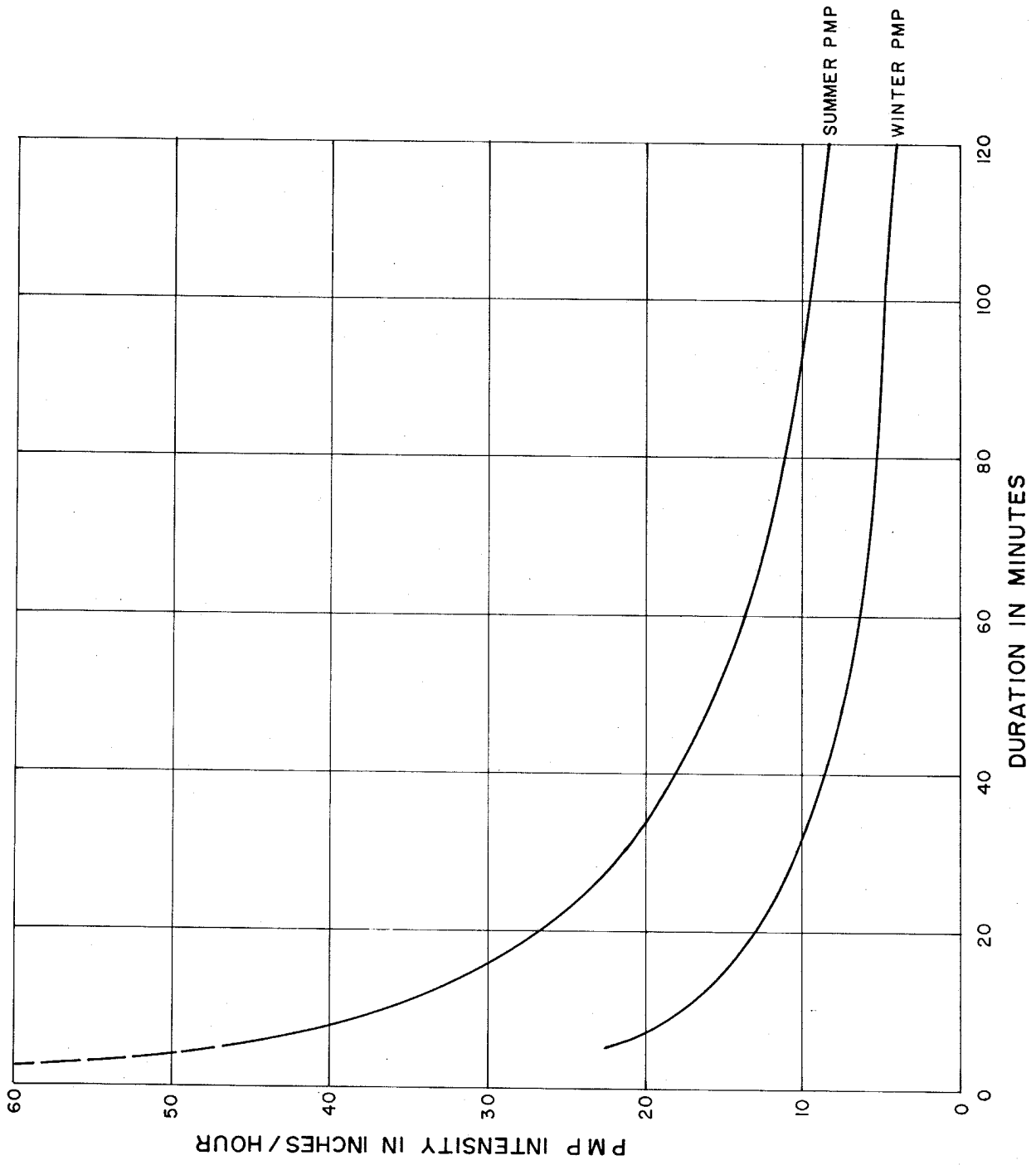


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-3

REGIONAL TOPOGRAPHIC MAP OF CLINTON POWER STATION AND ADJACENT AREAS

(SHEET 4 of 4)



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-4

SUMMER AND WINTER PMP INTENSITY DURATION CURVES

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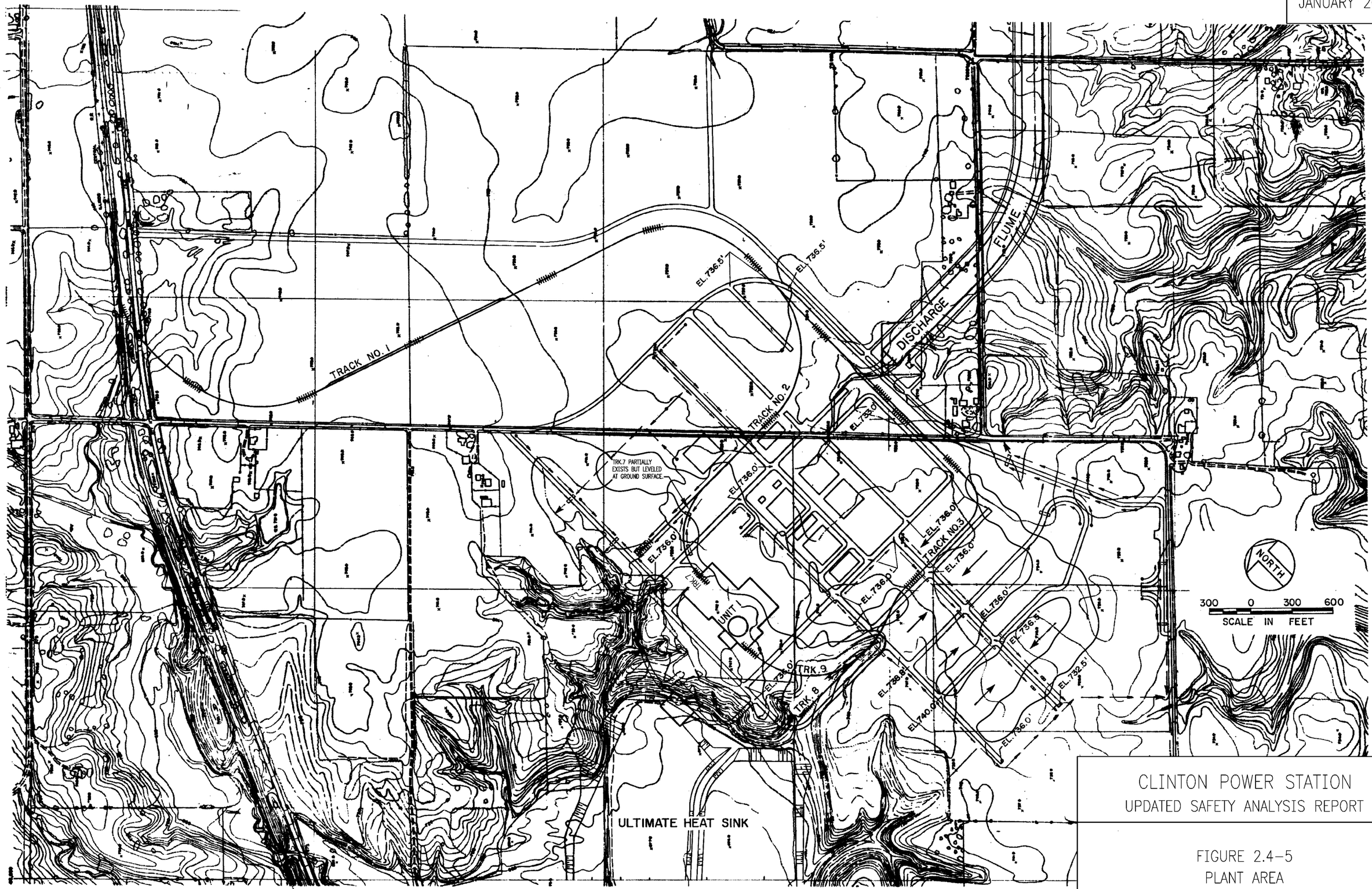

CLINTON POWER STATION
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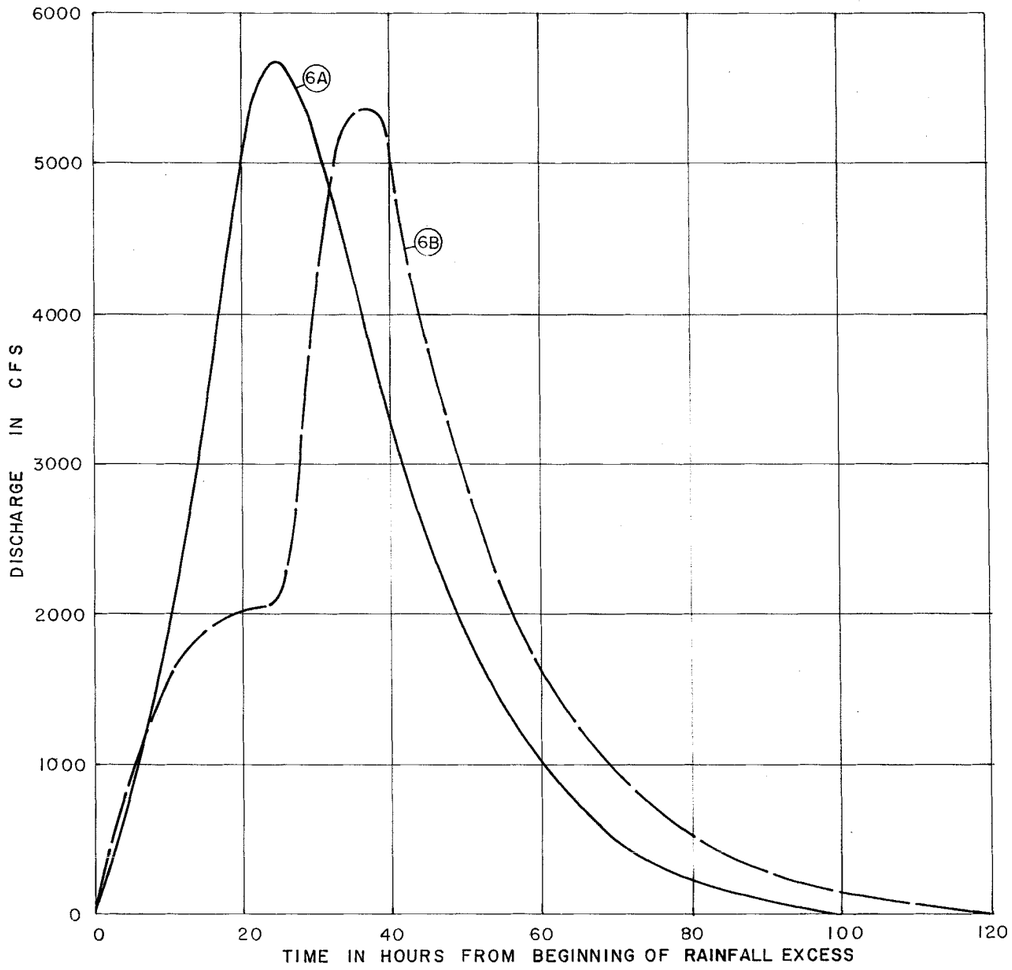
FIGURE 2.4-5
PLANT AREA



UNIT GRAPH DESIGNATION	UNIT DURATION HOURS	LOCATION	DRAINAGE AREA SQ.MILES	REMARKS
(6A)	2	DAM SITE	296	DERIVED FROM SYNTHETIC METHOD IN "UNIT HYDROGRAPHS IN ILLINOIS" BY W. D. MITCHELL
(6B)	2	DAM SITE	296	DERIVED FROM ROWELL STATION UNIT HYDROGRAPH ADJUSTED BY AREA RATIO OF 296/334 (FROM "UNIT HYDROGRAPHS IN ILLINOIS" BY W. D. MITCHELL

CLINTON POWER STATION
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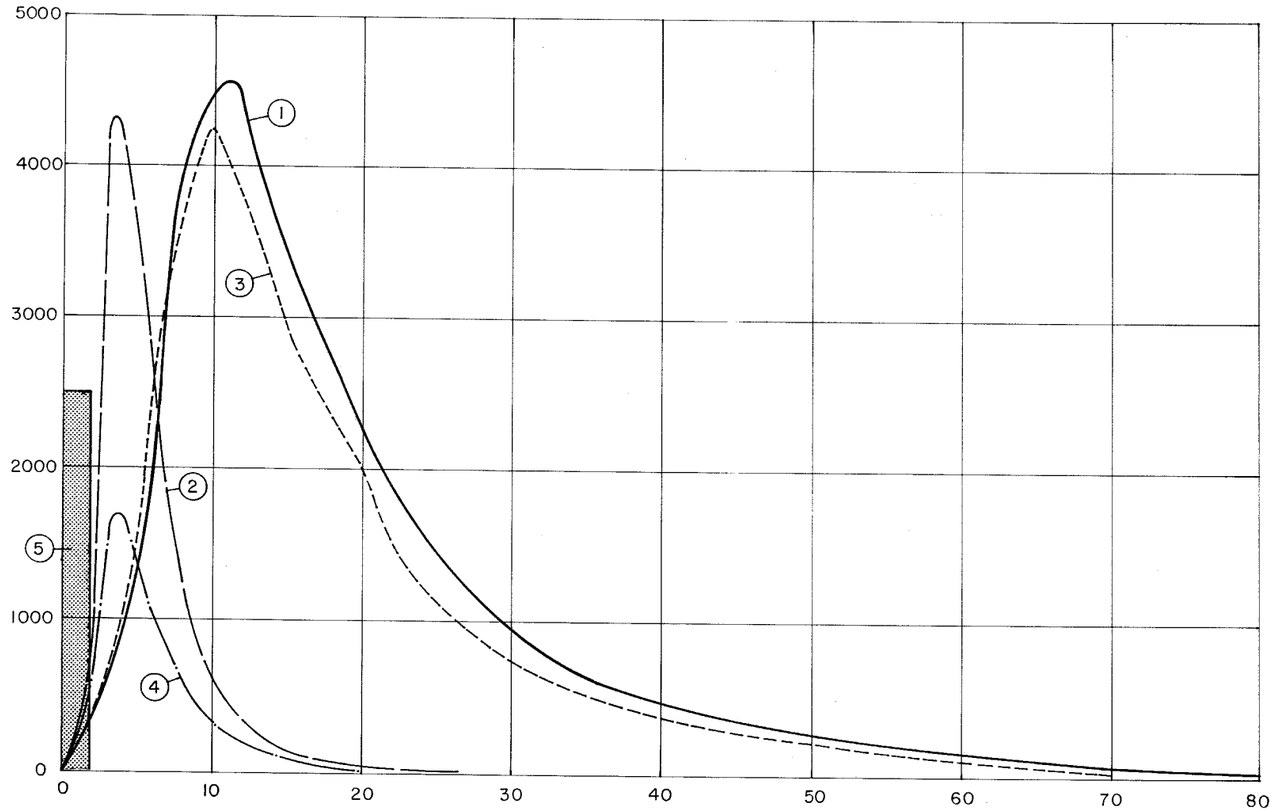
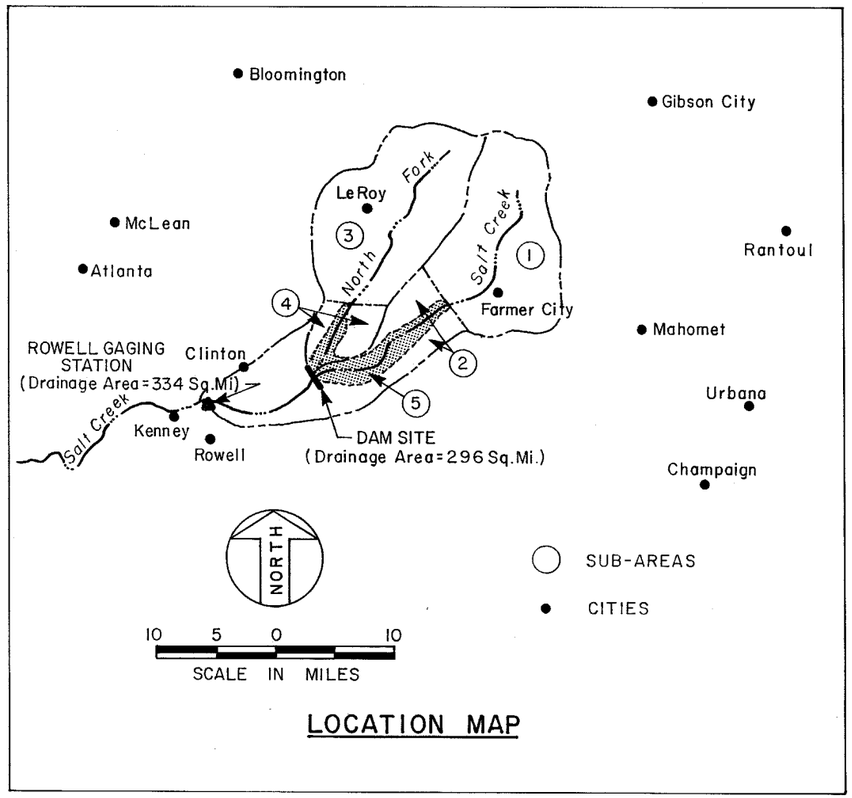
FIGURE 2.4-6

UNIT HYDROGRAPHS FOR SALT CREEK AT DAM SITE UNDER NATURAL RIVER CONDITIONS





LOCATION MAP

UNIT GRAPH NO.	UNIT DURATION HOURS	AREA REPRESENTED		REMARKS
		IDENTIFICATION	SQ.MI.	
(1)	2	SUB-AREA (1)	126	BASIN ABOVE HEAD OF SALT CREEK FINGER
(2)	2	SUB-AREA (2)	36	LOCAL AREA OF SALT CREEK FINGER
(3)	2	SUB-AREA (3)	111	BASIN ABOVE HEAD OF NORTH FORK FINGER
(4)	2	SUB-AREA (4)	15	LOCAL AREA OF NORTH FORK FINGER
(5)	2	SUB-AREA (5)	8	RESERVOIR SURFACE AREA

CLINTON POWER STATION
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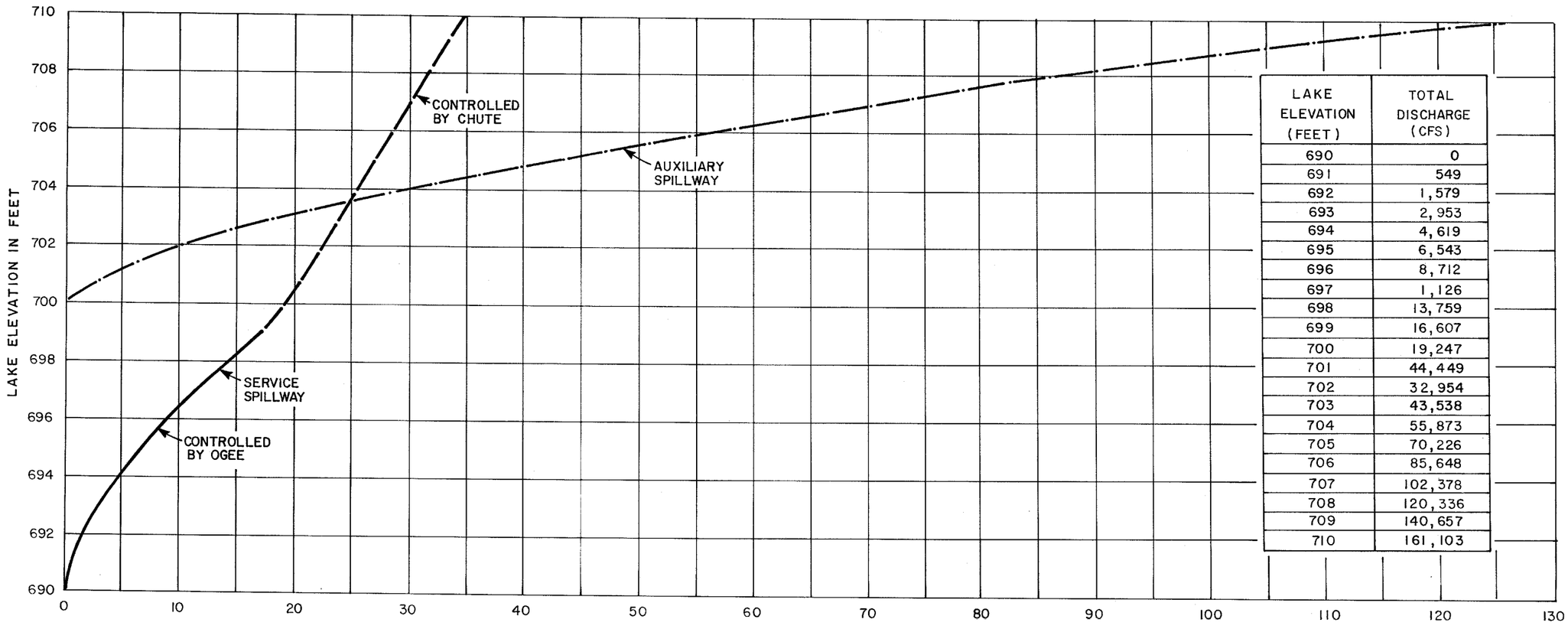
FIGURE 2.4-7

UNIT HYDROGRAPHS FOR SUB-BASIN AREAS



LAKE ELEVATION (FEET)	TOTAL DISCHARGE (CFS)
690	0
691	549
692	1,579
693	2,953
694	4,619
695	6,543
696	8,712
697	1,126
698	13,759
699	16,607
700	19,247
701	44,449
702	32,954
703	43,538
704	55,873
705	70,226
706	85,648
707	102,378
708	120,336
709	140,657
710	161,103

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-8

SPILLWAY RATING CURVES

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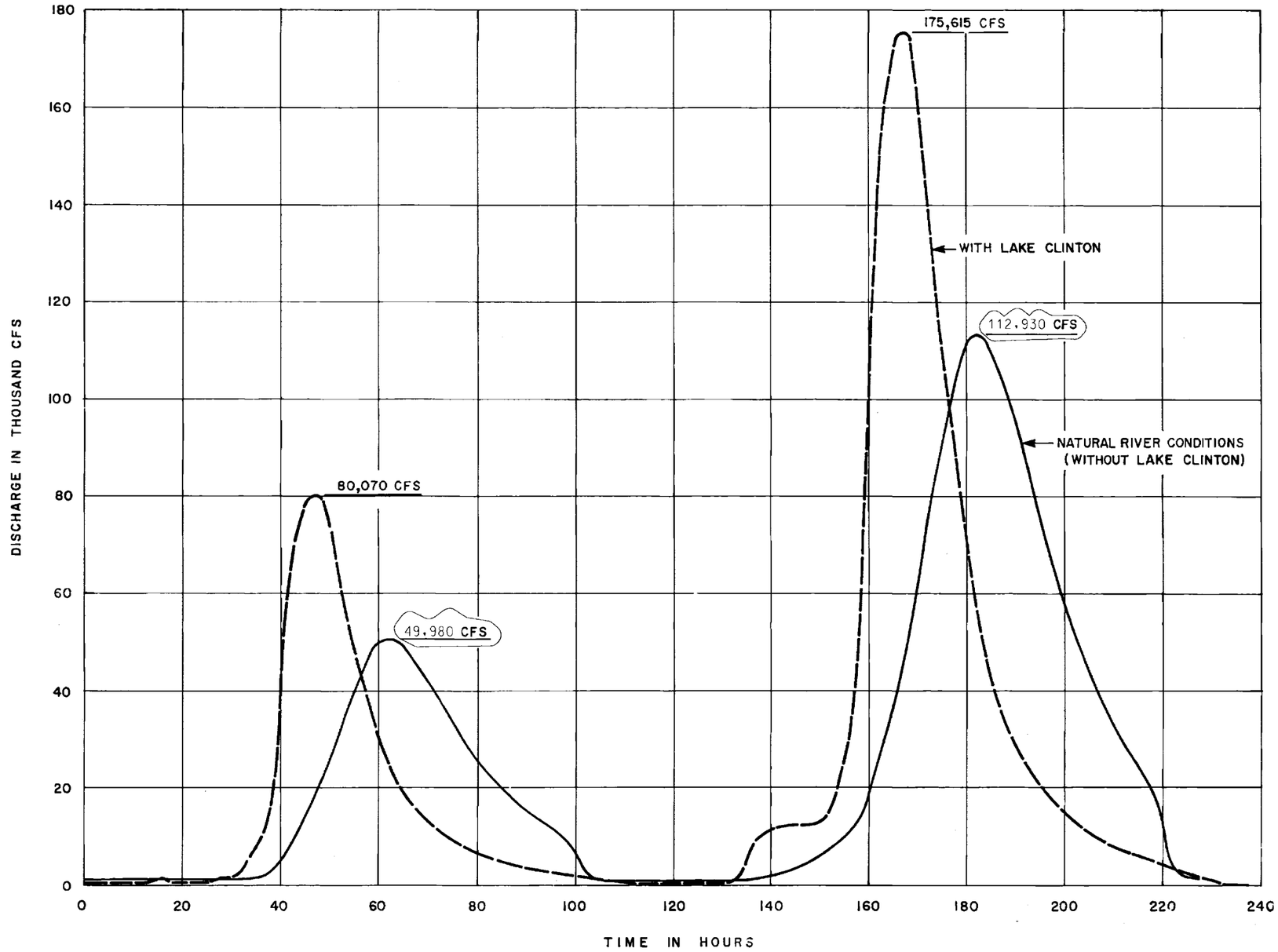

DRAINAGE AREA = 296 SQ. MILES

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FIGURE 2.4-9

PROBABLE MAXIMUM FLOOD INFLOW HYDROGRAPHS

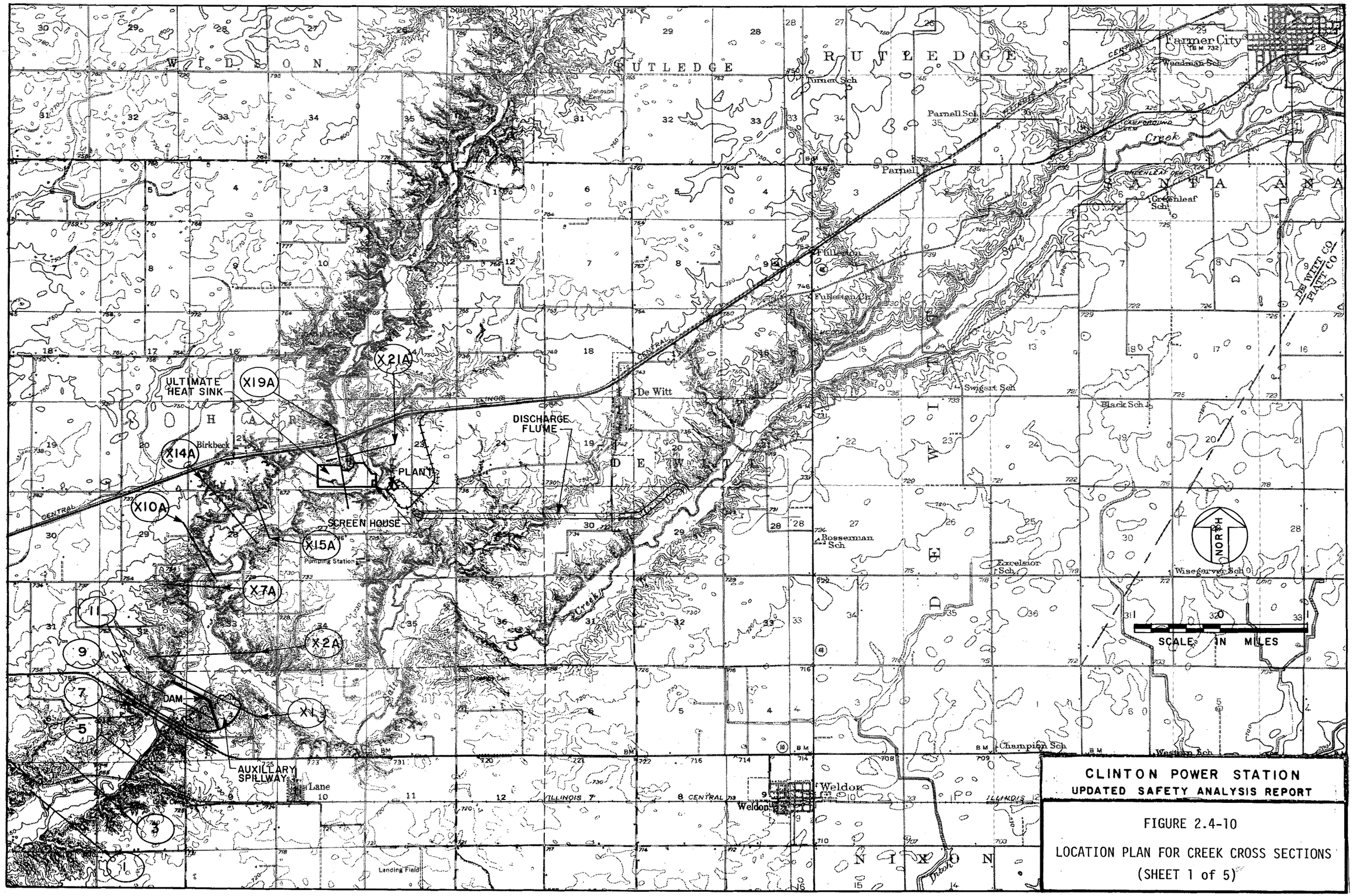

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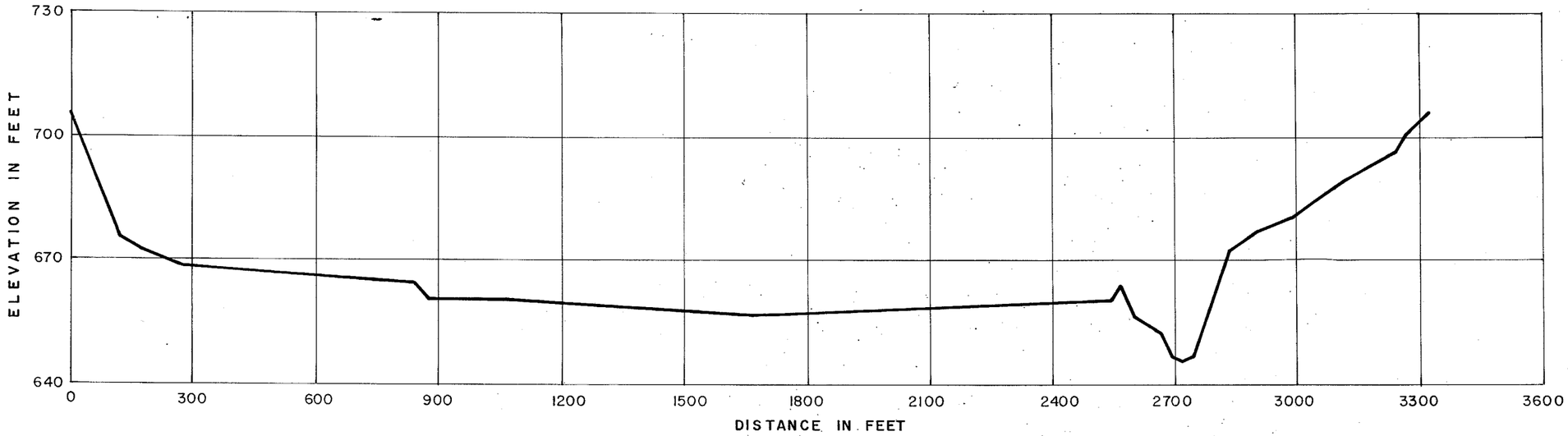
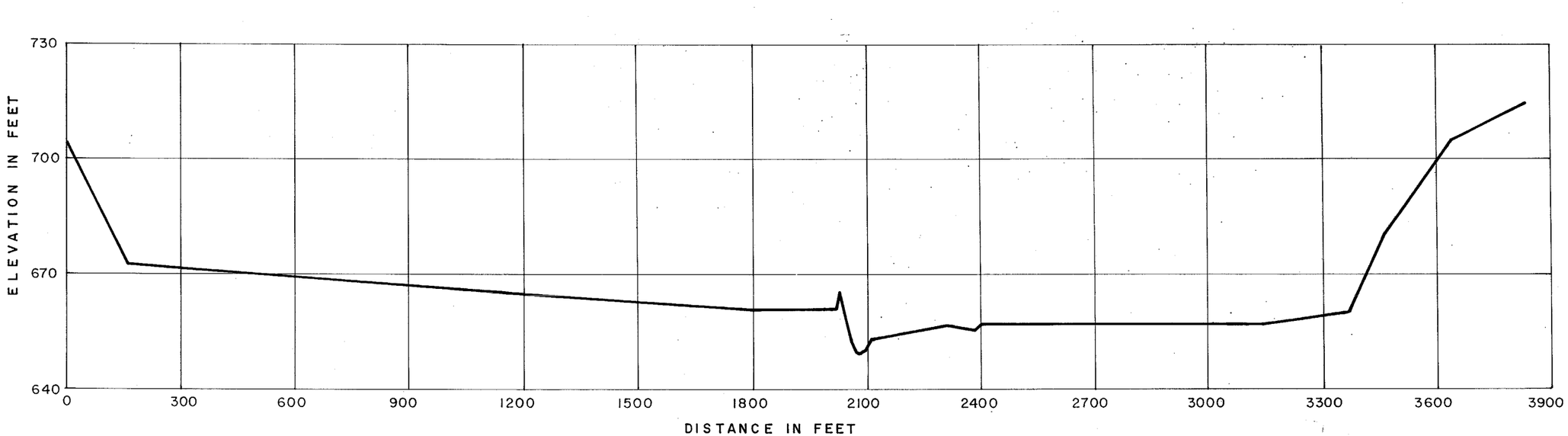
FIGURE 2.4-10

LOCATION PLAN FOR CREEK CROSS SECTIONS
(SHEET 1 of 5)



SECTION XI



SECTION X2A

CLINTON POWER STATION
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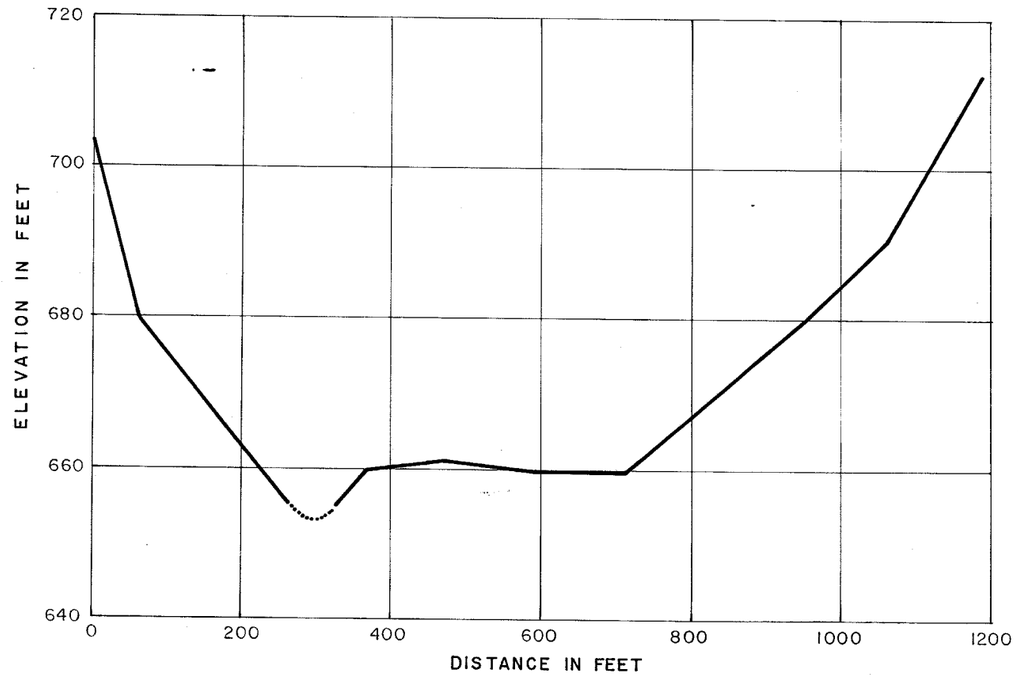
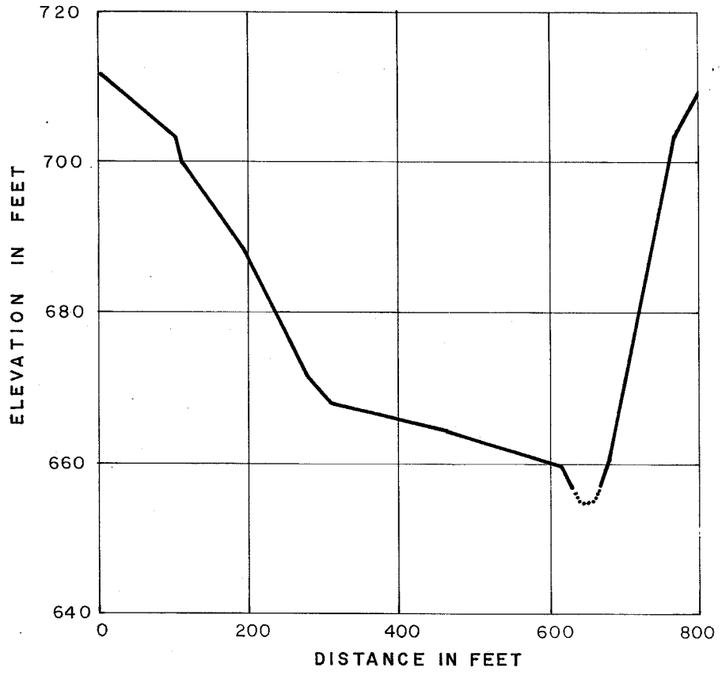
FIGURE 2.4-10

LOCATION PLAN FOR CREEK CROSS SECTIONS

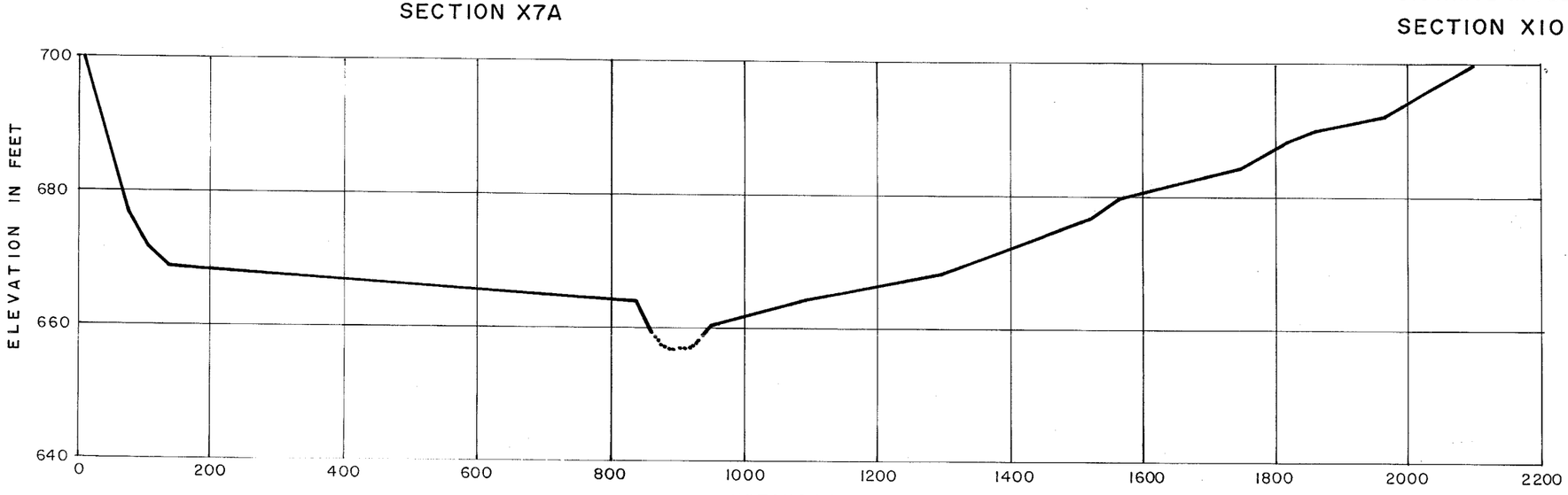
(SHEET 2 of 5)



SECTION X7A



SECTION X10A



SECTION X14A

CLINTON POWER STATION
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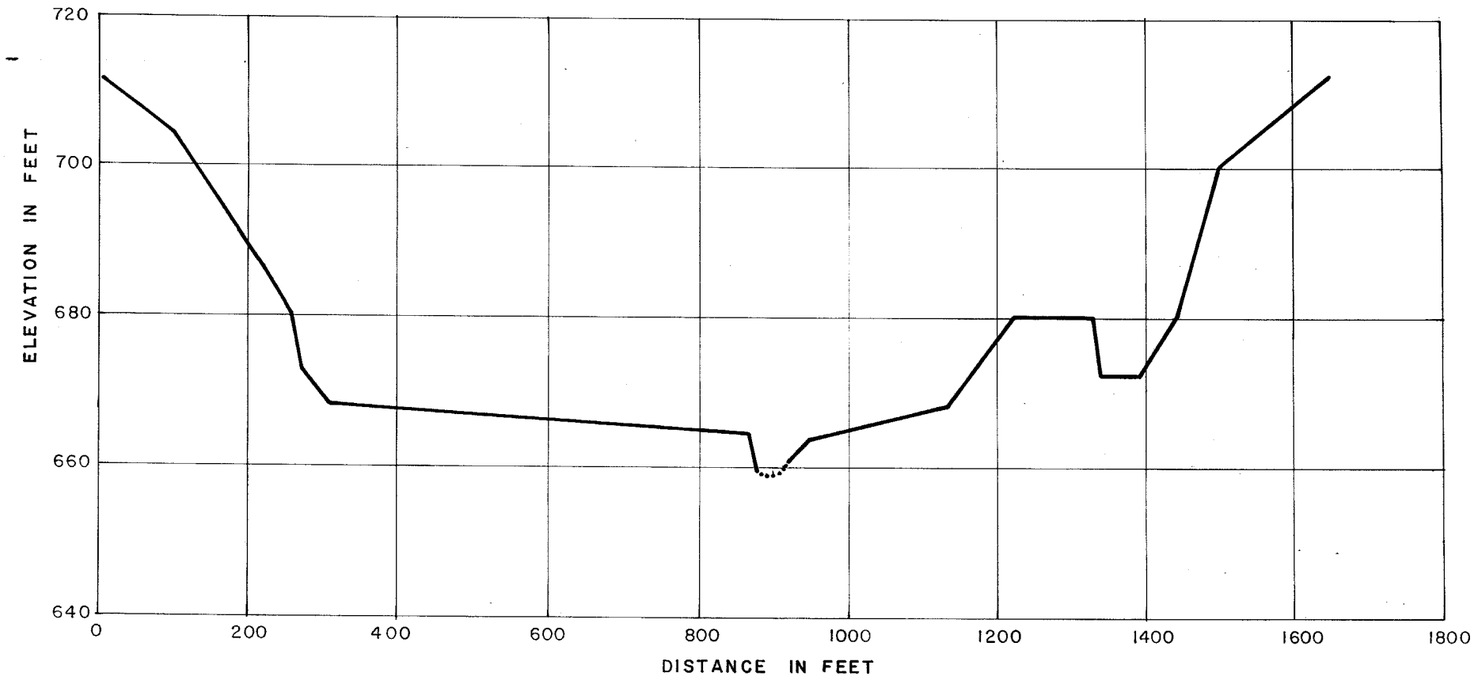
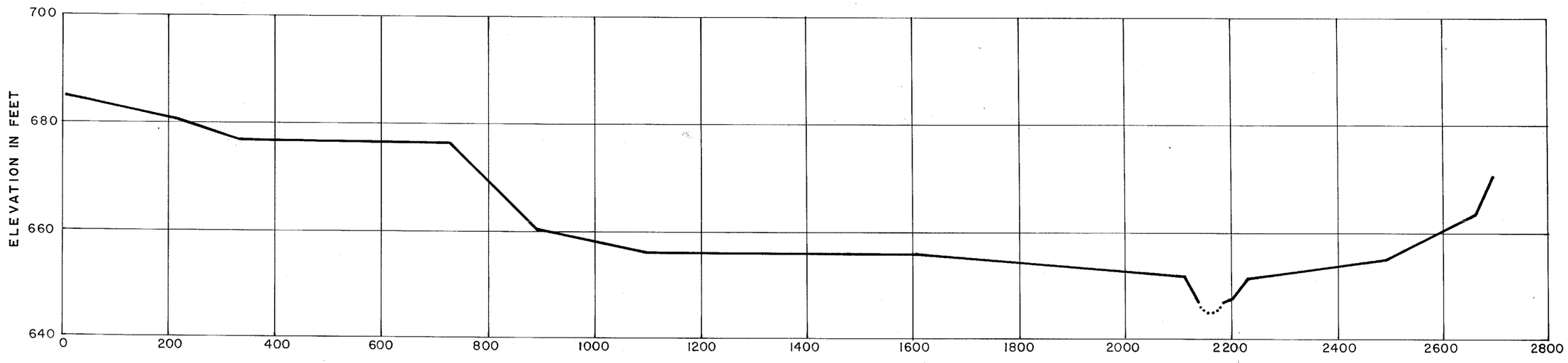
FIGURE 2.4-10

LOCATION PLAN FOR CREEK CROSS SECTIONS

(SHEET 3 of 5)



SECTION X15A



SECTION X19A

CROSS SECTION LOOKING UPSTREAM.

CLINTON POWER STATION
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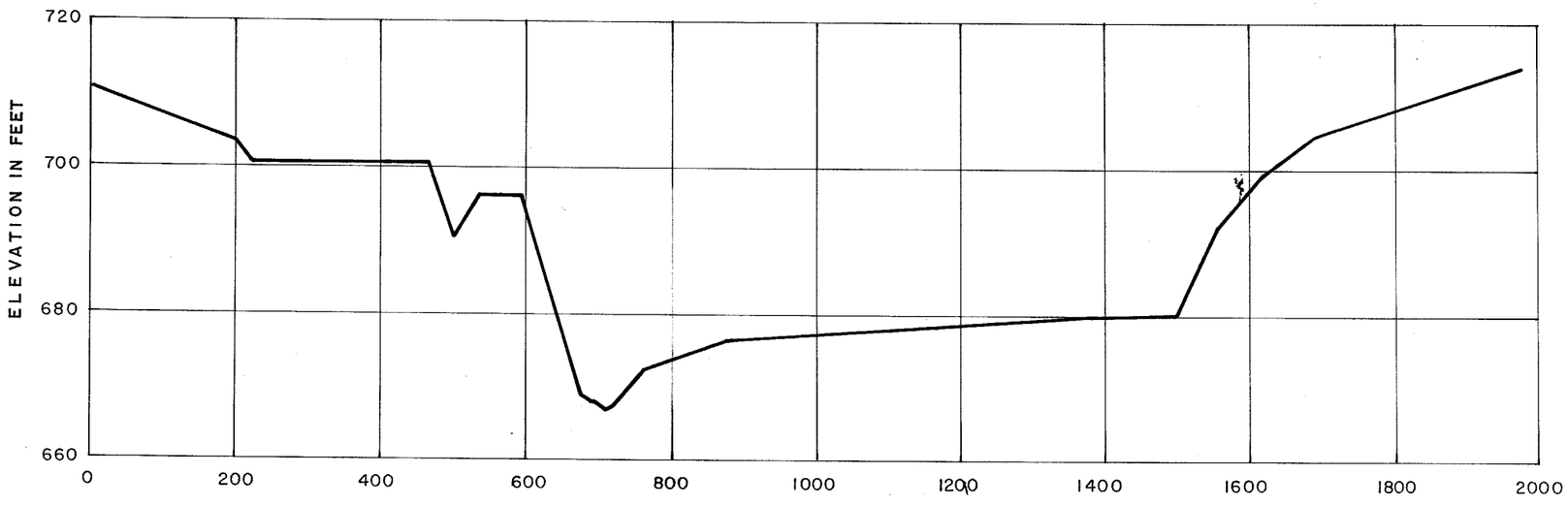
FIGURE 2.4-10

LOCATION PLAN FOR CREEK CROSS SECTIONS
(SHEET 4 of 5)



SECTION X21A

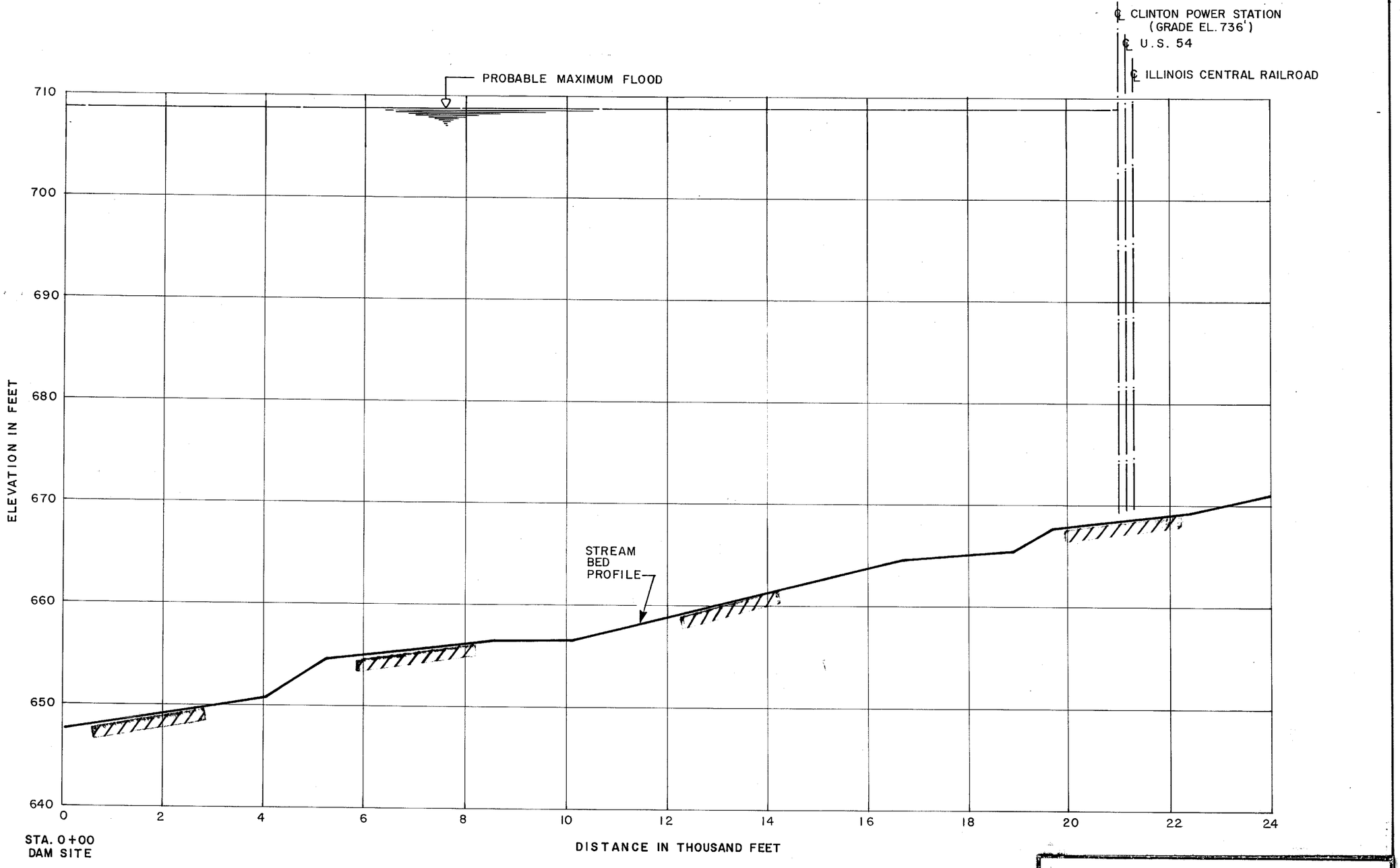
CROSS SECTION LOOKING UPSTREAM.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-10

LOCATION PLAN FOR CREEK CROSS SECTIONS

(SHEET 5 of 5)



CLINTON POWER STATION
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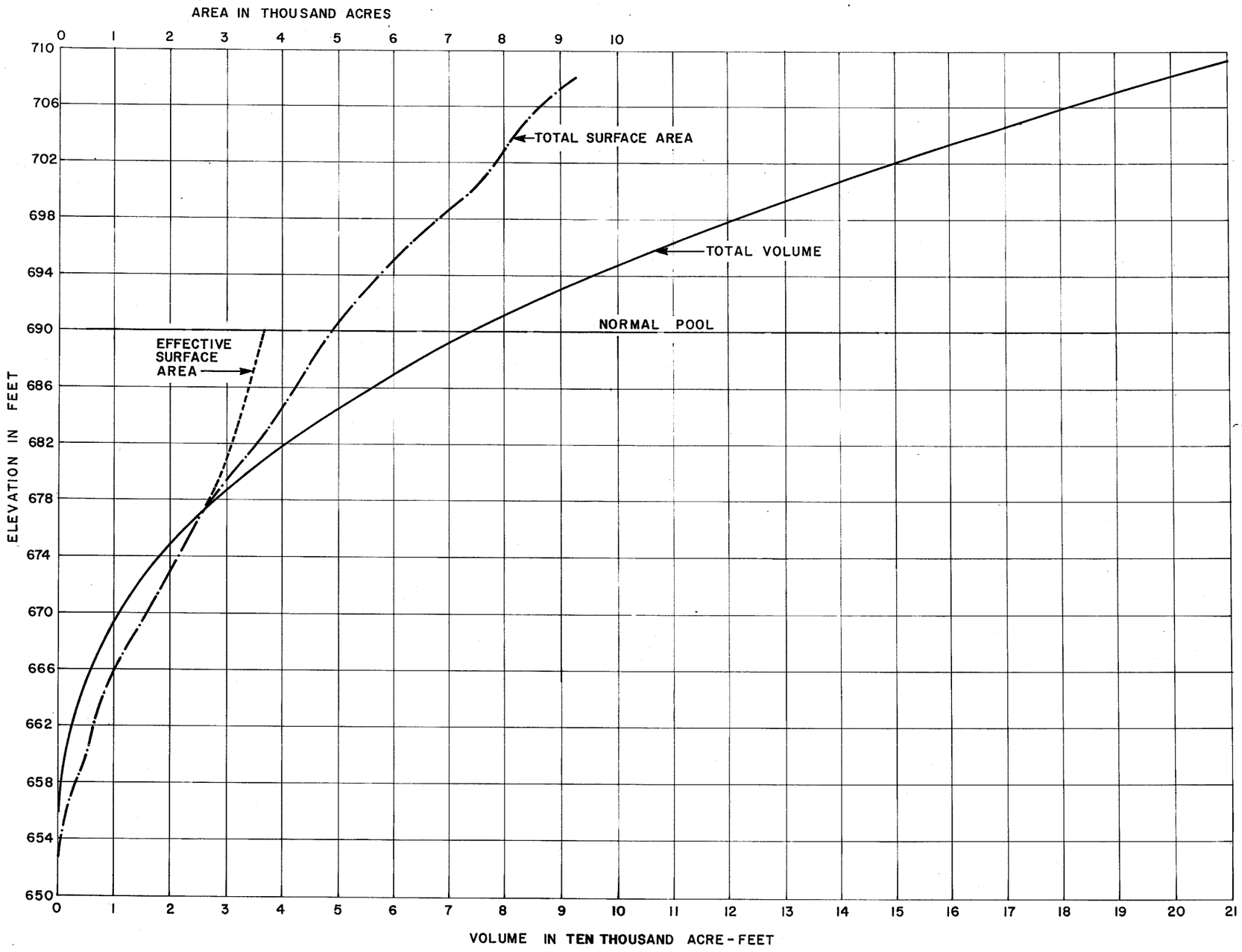
FIGURE 2.4-11

WATER SURFACE PROFILE - NORTH FORK

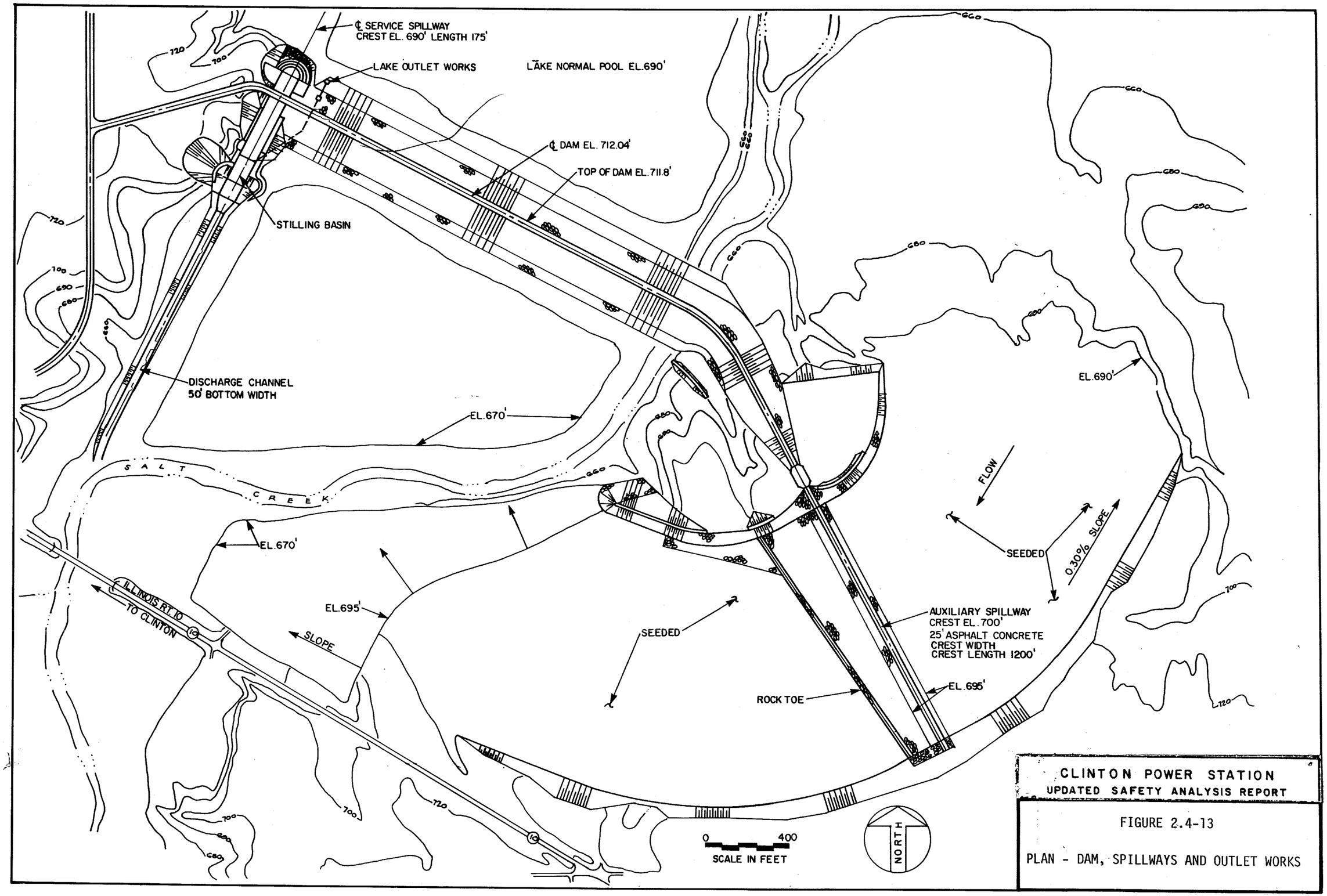


ELEVATION IN FEET	AREA IN ACRES	CAPACITY IN ACRE-FEET
680	3,100	33,900
682	3,550	40,600
684	3,930	48,000
686	4,250	56,000
688	4,520	64,800
690	4,895	74,200
692	5,210	83,600
694	5,700	95,000
696	6,140	106,300
698	6,800	120,000
700	7,380	133,300
702	7,800	149,000
704	8,180	164,300
706	8,600	182,000
708	9,260	199,200

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-12

LAKE AREA - CAPACITY CURVES



CLINTON POWER STATION
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FIGURE 2.4-13

PLAN - DAM, SPILLWAYS AND OUTLET WORKS

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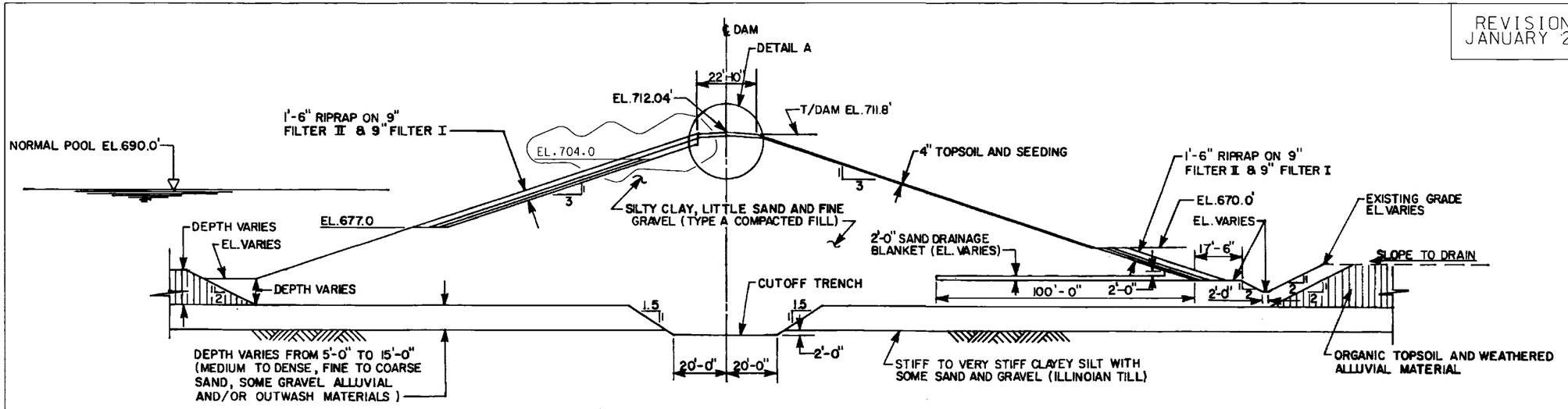
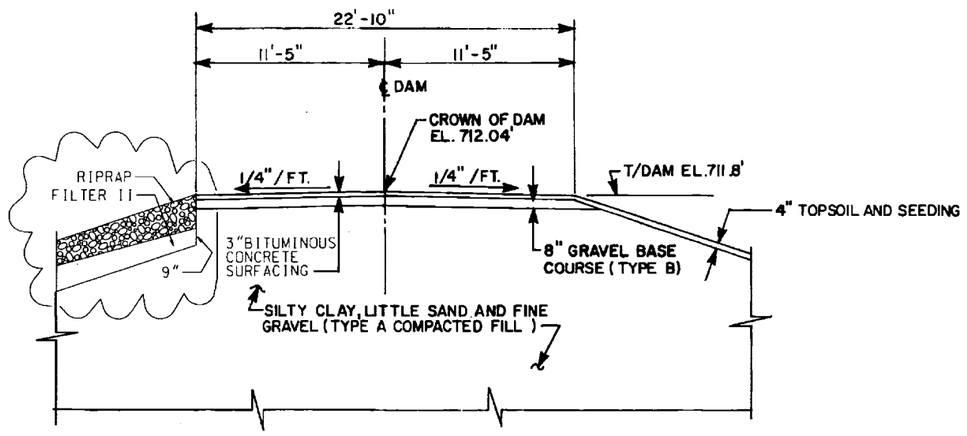


TYPICAL DAM SECTION

40 0 40 80

SCALE IN FEET



DETAIL A

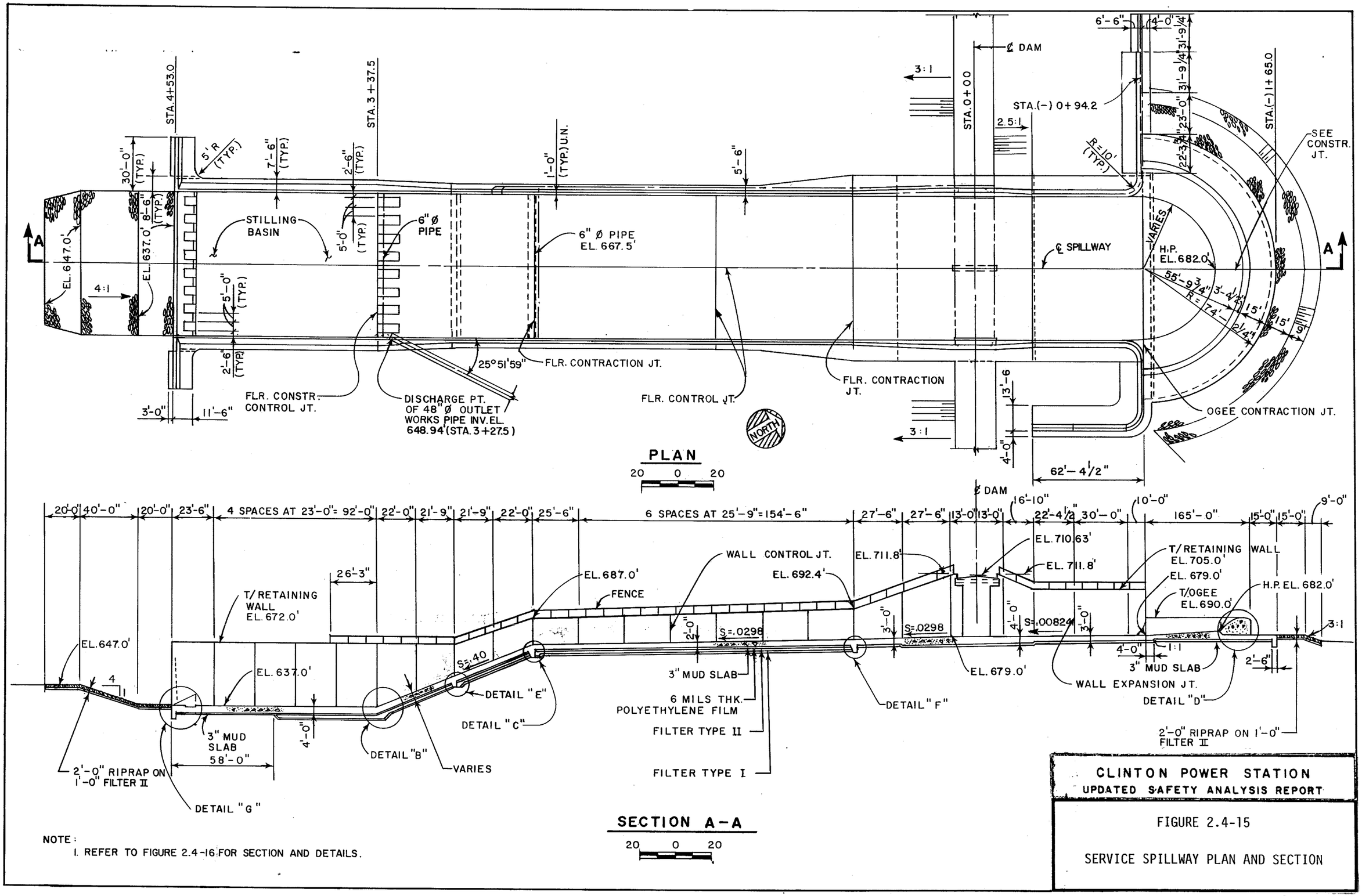
8 0 8 16

SCALE IN FEET

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-14

TYPICAL DAM CROSS SECTION



NOTE:
1. REFER TO FIGURE 2.4-16 FOR SECTION AND DETAILS.

CLINTON POWER STATION
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FIGURE 2.4-15

SERVICE SPILLWAY PLAN AND SECTION

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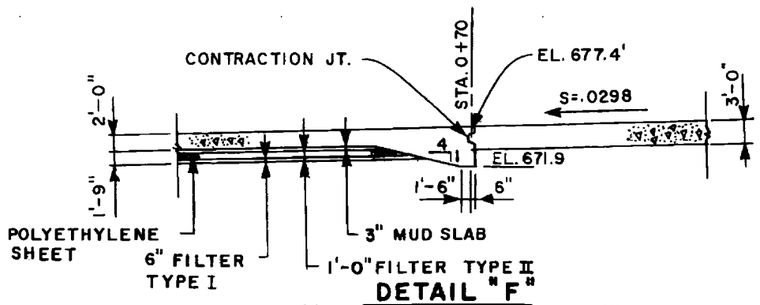
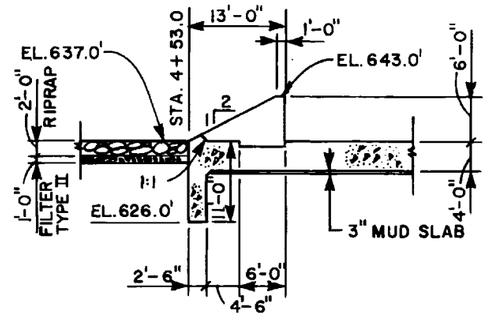
JANUARY 2001



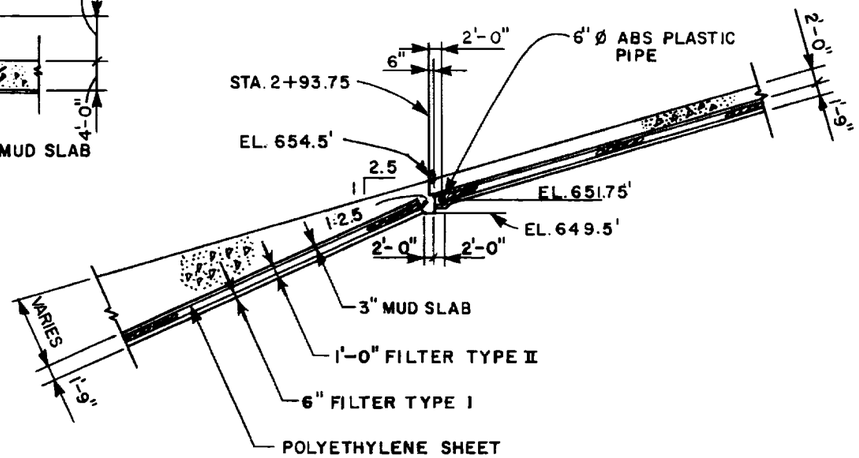
DETAIL "F"

20 0 20



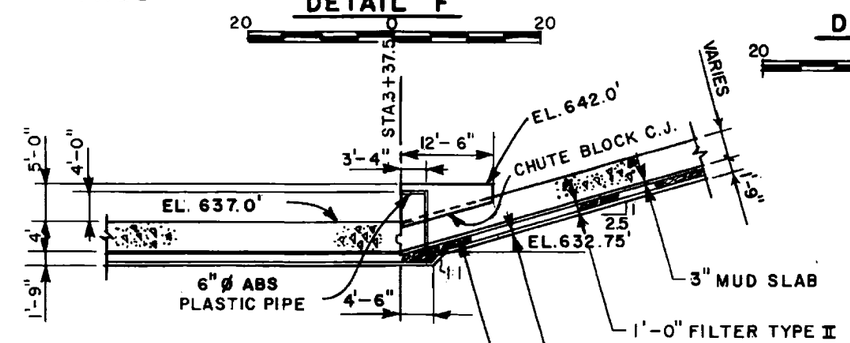
DETAIL "G"

20 0 20



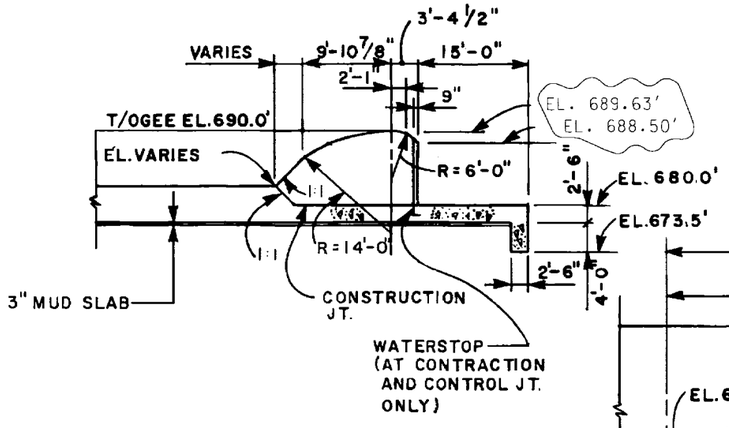
DETAIL "E"

20 0 20



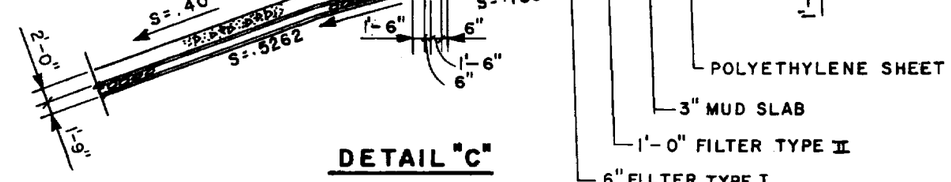
DETAIL "B"

20 0 20



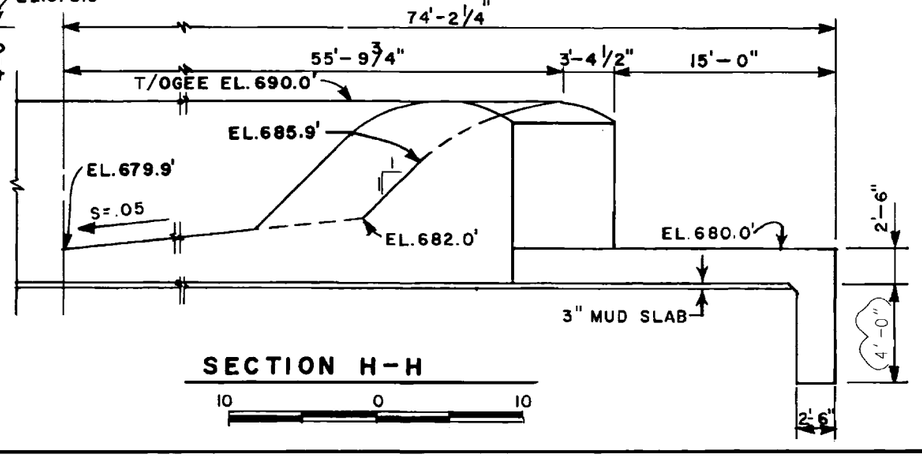
DETAIL "D"

20 0 20



DETAIL "C"

20 0 20



SECTION H-H

10 0 10

NOTE:
1. REFER TO FIGURE 2.4-15 FOR PLAN.

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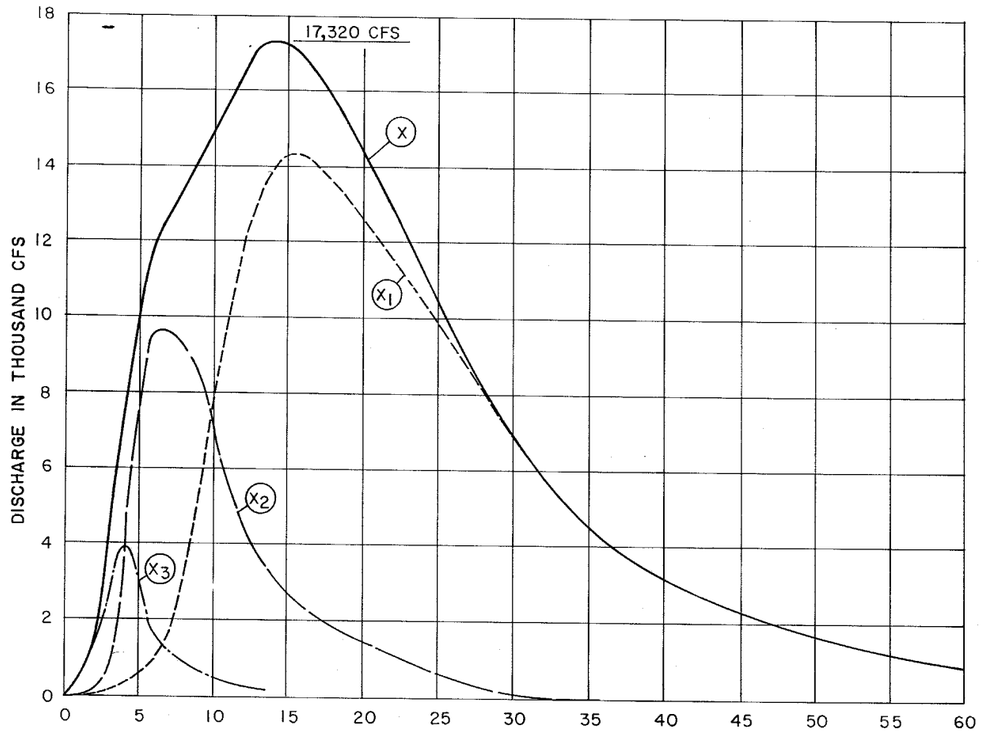
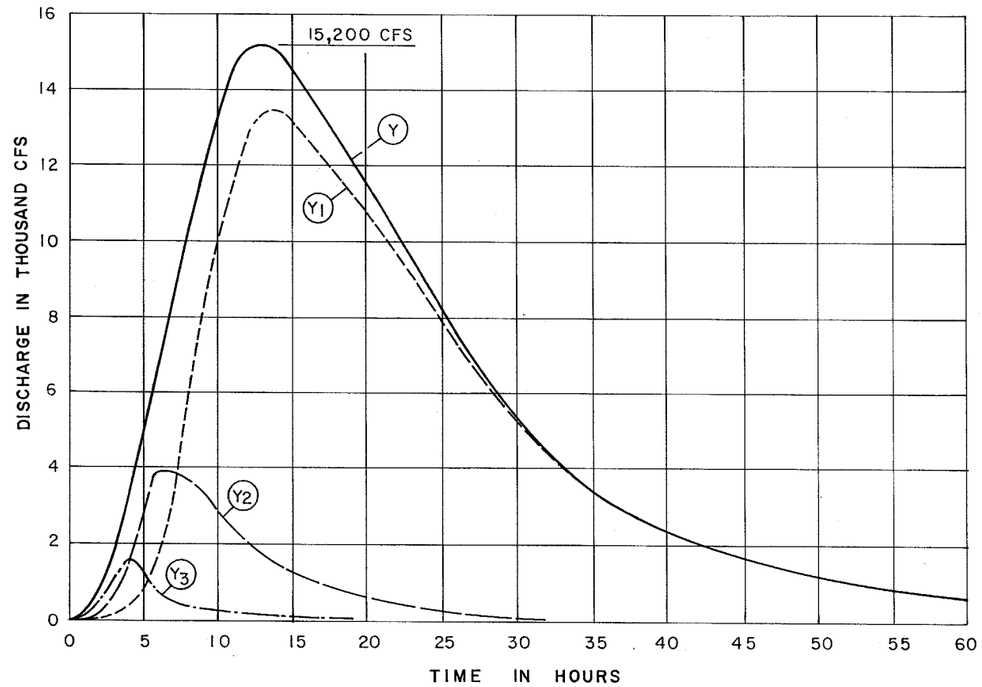
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-16

SERVICE SPILLWAY SECTION AND DETAILS



100-YEAR FLOOD HYDROGRAPHS OF
SALT CREEK COMPONENT AREAS



100-YEAR FLOOD HYDROGRAPHS OF
NORTH FORK COMPONENT AREAS

HYDROGRAPH DESIGNATION	AREA REPRESENTED		UNIT HYDROGRAPH APPLIED	REMARKS
	SUB-AREA	SQ.MILES		
(X)	1,2,5(PORTION)	167.5	1,2,5(PORTION)	REPRESENTS TOTAL INFLOW INTO FULL RESERVOIR FROM SALT CREEK COMPONENT AREA
(X_1)	1	126.0	1	REPRESENTS INFLOW AT SALT CREEK HEAD OF RESERVOIR (LAG BY 1-HOUR)
(X_2)	2	36.0	2	REPRESENTS INFLOW INTO RESERVOIR FROM SALT CREEK LOCAL AREA
(X_3)	5 (PORTION)	5.5	5(PORTION)	REPRESENTS INFLOW FROM DIRECT PRECIPITATION ON SALT CREEK PORTION OF RESERVOIR AREA
(Y)	3,4,5(PORTION)	128.5	3,4,5(PORTION)	REPRESENTS TOTAL INFLOW INTO FULL RESERVOIR FROM NORTH FORK COMPONENT AREA
(Y_1)	3	111.0	3	REPRESENTS INFLOW AT NORTH FORK HEAD OF RESERVOIR
(Y_2)	4	15.0	4	REPRESENTS INFLOW INTO RESERVOIR FROM NORTH FORK LOCAL AREA
(Y_3)	5 (PORTION)	2.5	5(PORTION)	REPRESENTS INFLOW FROM DIRECT PRECIPITATION ON NORTH FORK PORTION OF RESERVOIR AREA

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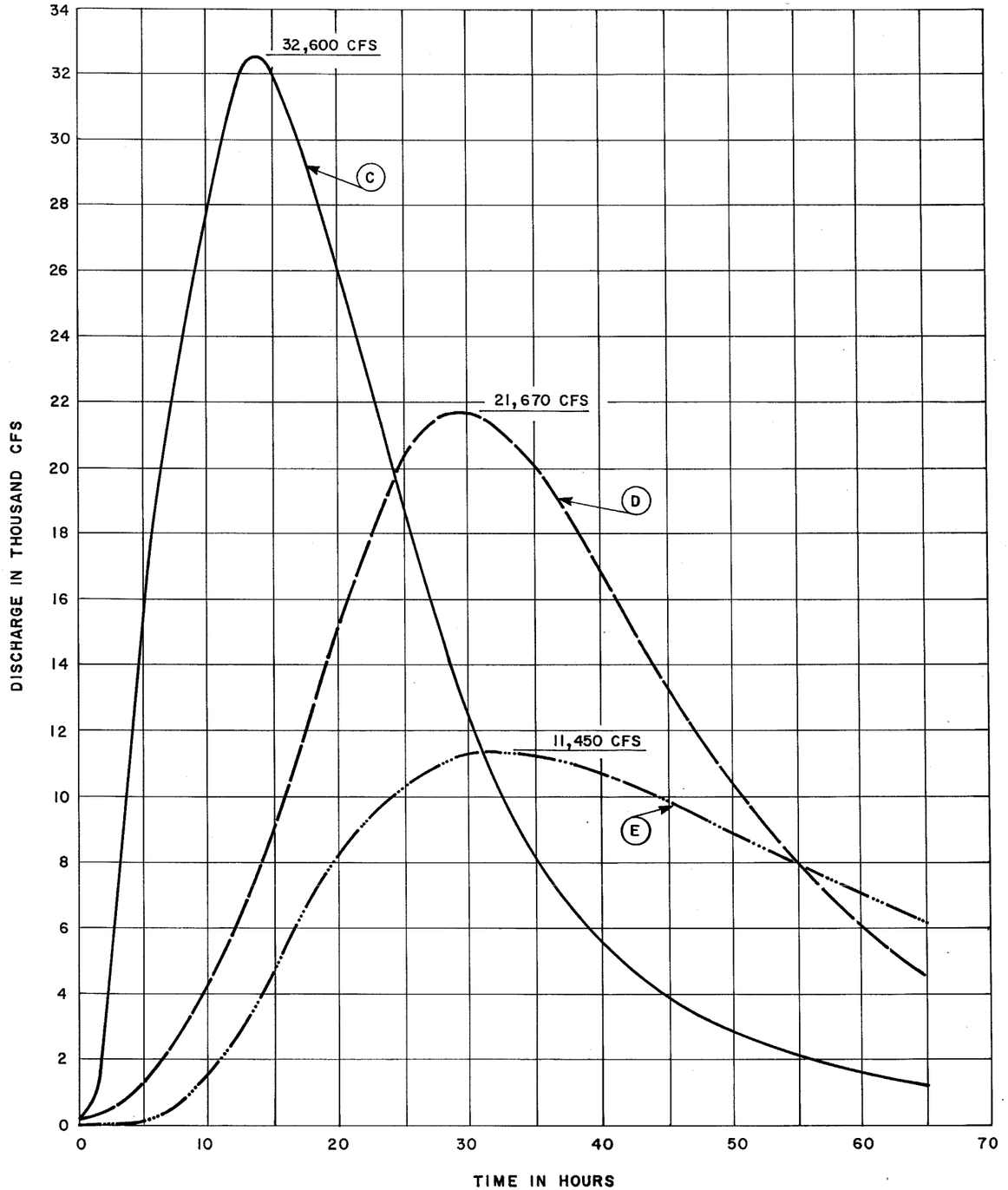
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-17

100-YEAR FLOOD HYDROGRAPHS OF SALT CREEK
AND NORTH FORK COMPONENT AREAS



HYDROGRAPH DESIGNATION	AREA IN SQ. MILES	UNIT HYDROGRAPH APPLIED	REMARKS
(C)	296	1,2,3,4 & 5	REPRESENTS TOTAL 100-YEAR FLOOD INFLOW INTO FULL RESERVOIR
(D)	296	6A	REPRESENTS FLOW AT DAM SITE UNDER NATURAL RIVER CONDITIONS
(E)			OUTFLOW HYDROGRAPH

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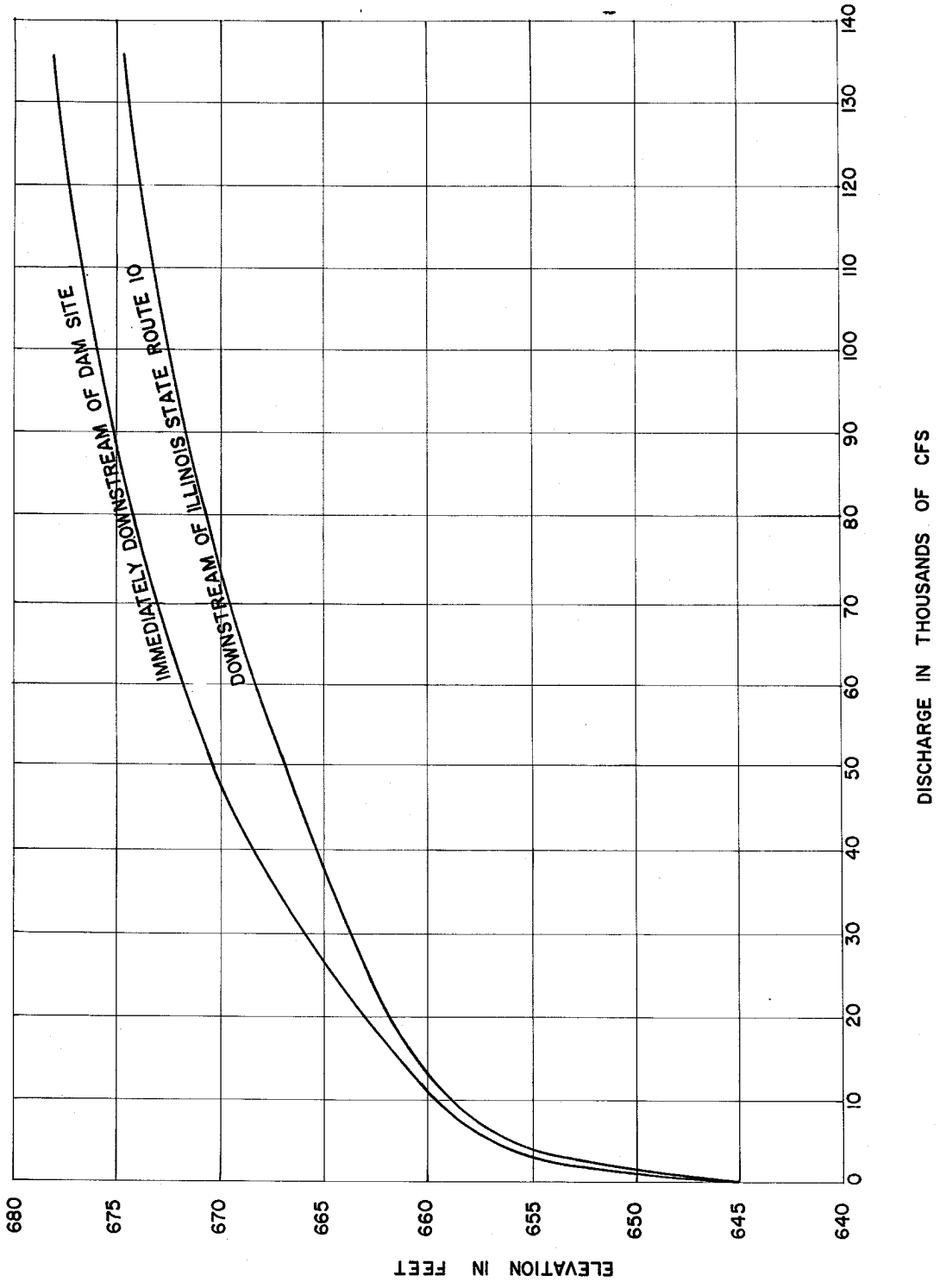
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-18

100-YEAR FLOOD HYDROGRAPHS OF LAKE CLINTON AND SALT CREEK AT DAM SITE



CLINTON POWER STATION
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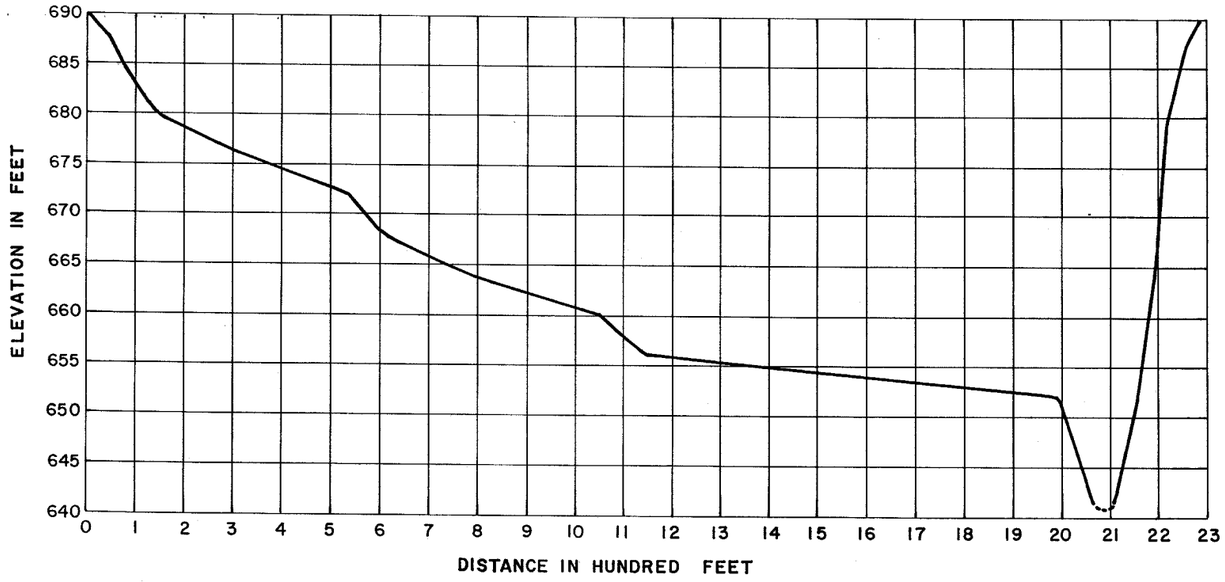
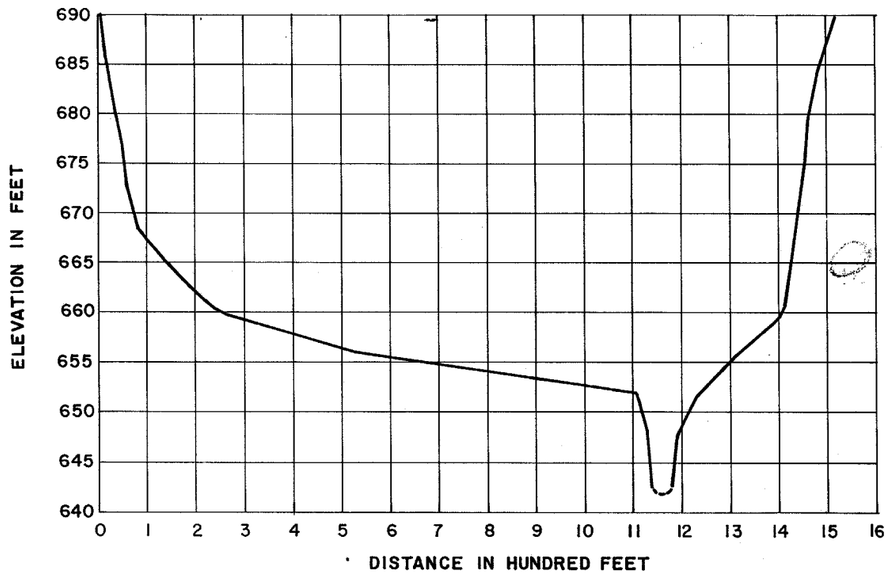
FIGURE 2.4-19

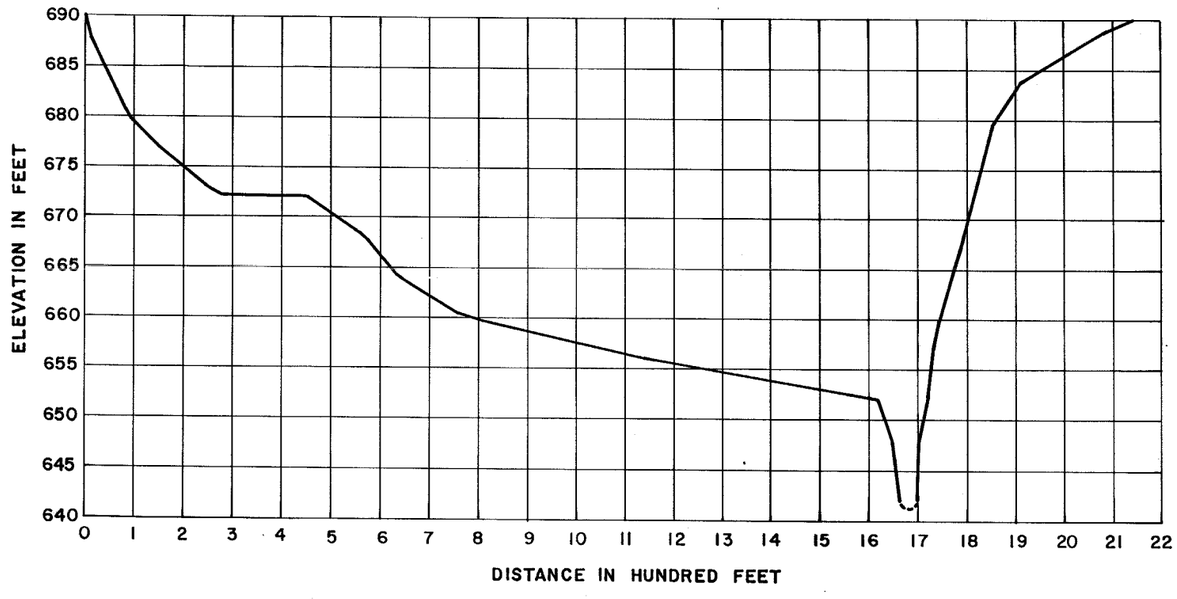
TAILWATER RATING CURVE DOWNSTREAM OF DAM SITE



CROSS SECTION 1
(4070 FEET DOWNSTREAM)



CROSS SECTION 5
(1060 FEET DOWNSTREAM)



CROSS SECTION 3
(2680 FEET DOWNSTREAM)

NOTES:

1. CROSS SECTIONS LOOKING UPSTREAM.
2. LOCATION OF CROSS SECTION IS REFERRED TO ILLINOIS STATE ROUTE 10 BRIDGE.

CLINTON POWER STATION
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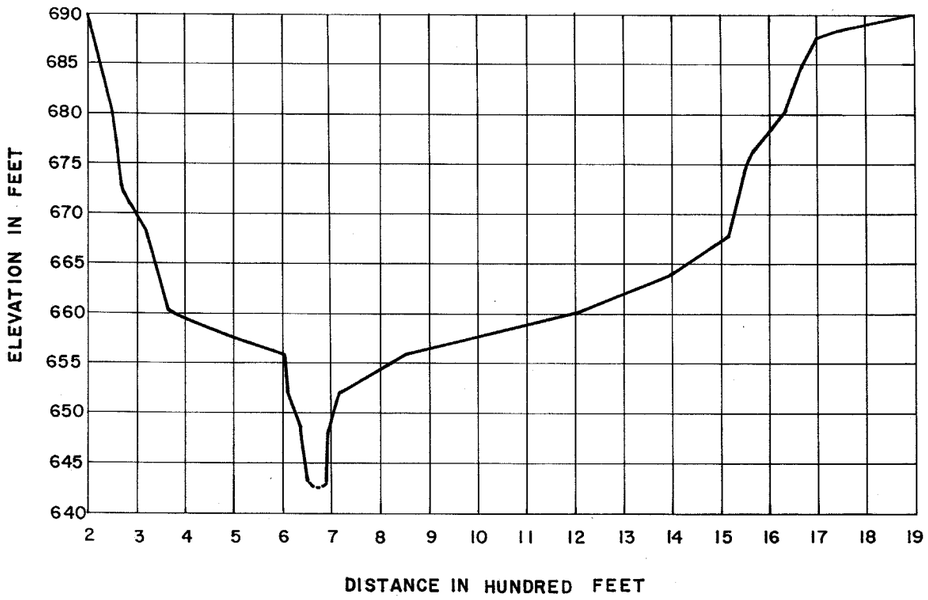
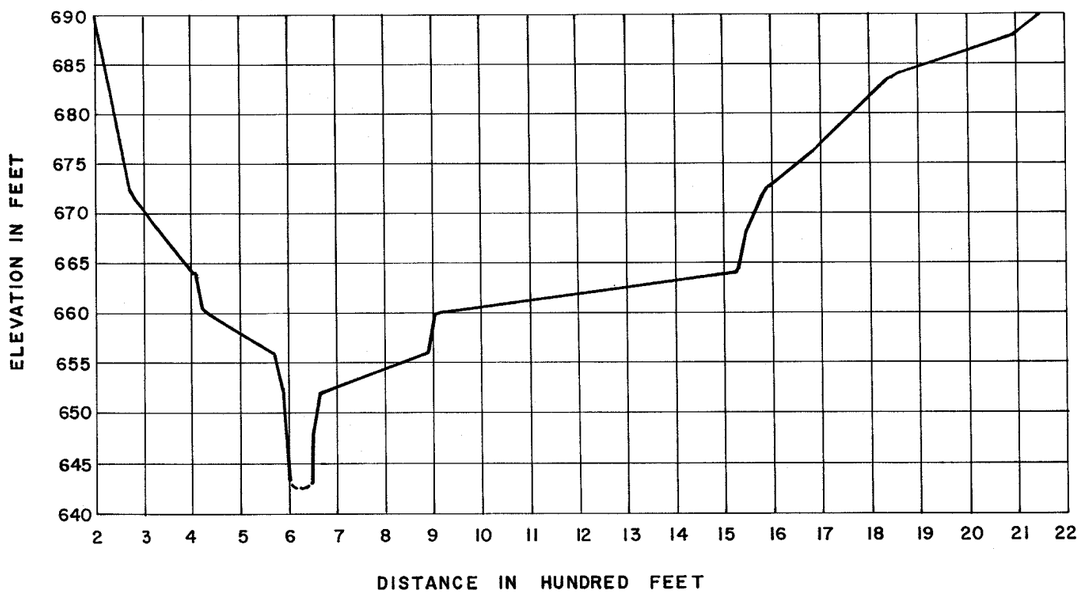
FIGURE 2.4-20

SALT CREEK CROSS SECTIONS

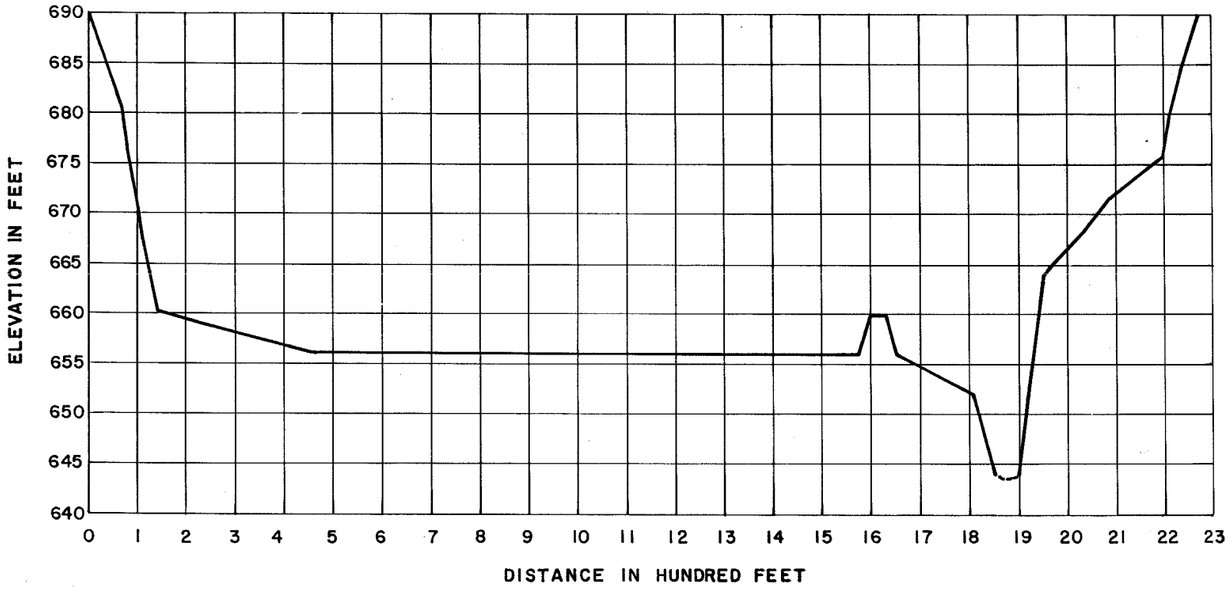
(SHEET 1 of 3)



CROSS SECTION 7
(50 FEET DOWNSTREAM)



CROSS SECTION 9
(50 FEET UPSTREAM)



CROSS SECTION 11
(2000 FEET UPSTREAM)

NOTES:

1. CROSS SECTIONS LOOKING UPSTREAM.
2. LOCATION OF CROSS SECTION IS REFERRED TO ILLINOIS STATE ROUTE 10 BRIDGE.

CLINTON POWER STATION
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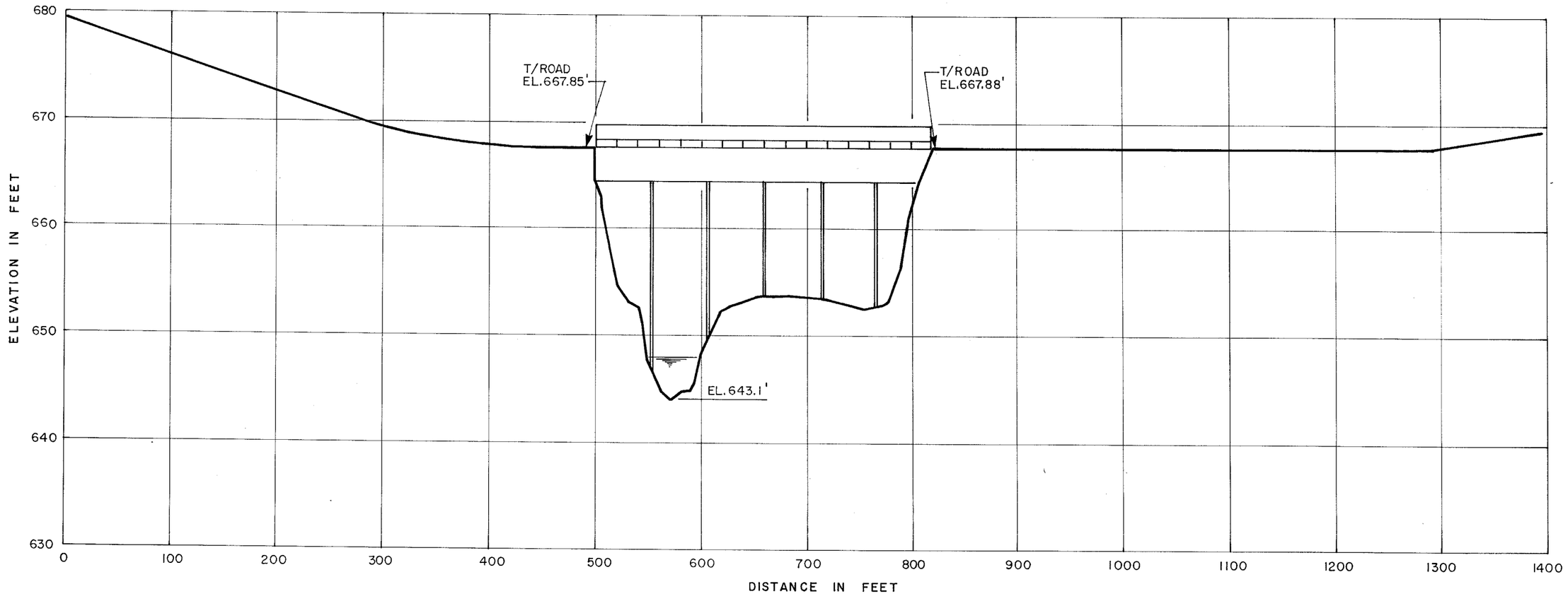
FIGURE 2.4-20

SALT CREEK CROSS SECTIONS
(SHEET 2 of 3)



ILLINOIS STATE ROUTE 10 BRIDGE

SURVEYED BY CHARLES S. DANNER,
CONSULTING ENGINEER (9/18/72)

CROSS SECTION LOOKING UPSTREAM.

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FIGURE 2.4-20

SALT CREEK CROSS SECTIONS
(SHEET 3 of 3)

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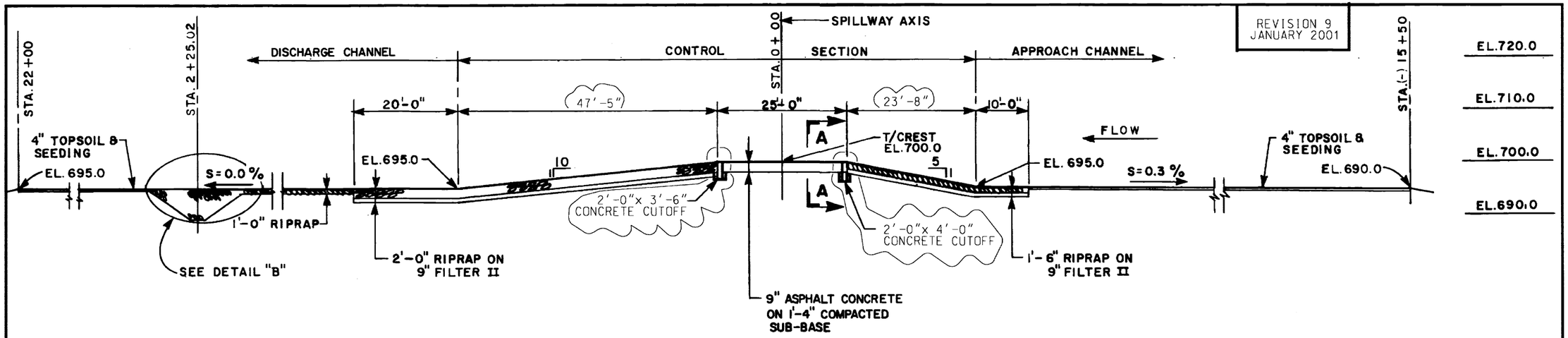
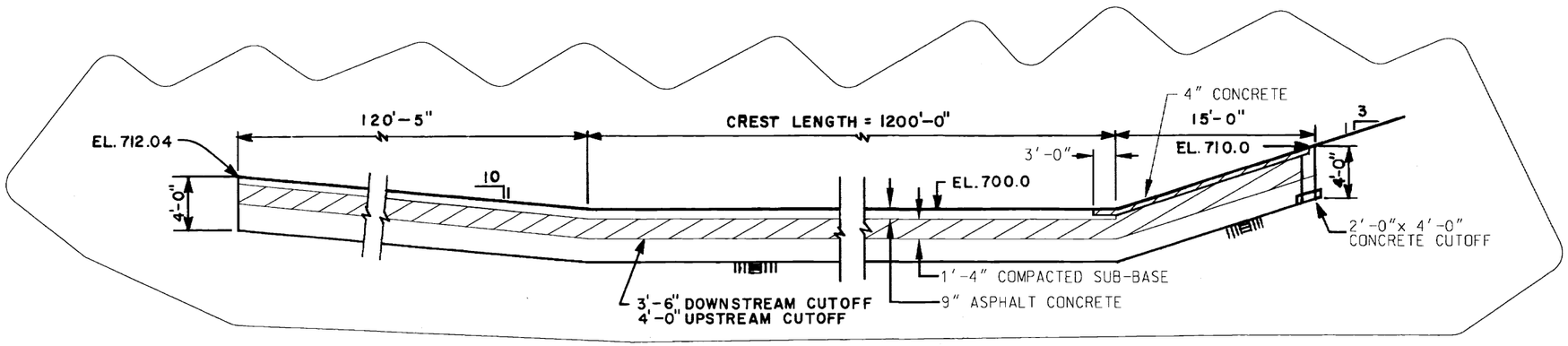


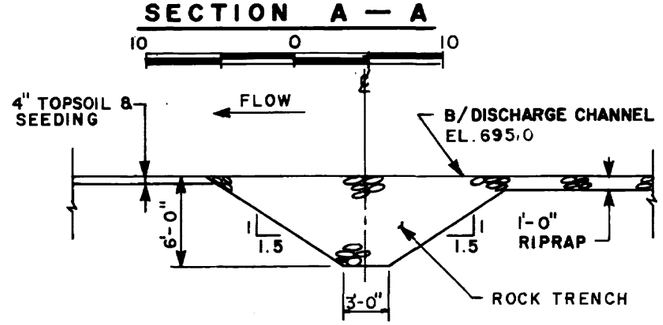
AUXILIARY SPILLWAY SECTION

20 0 20



SECTION A — A

10 0 10



DETAIL "B"

10 0 10

CLINTON POWER STATION
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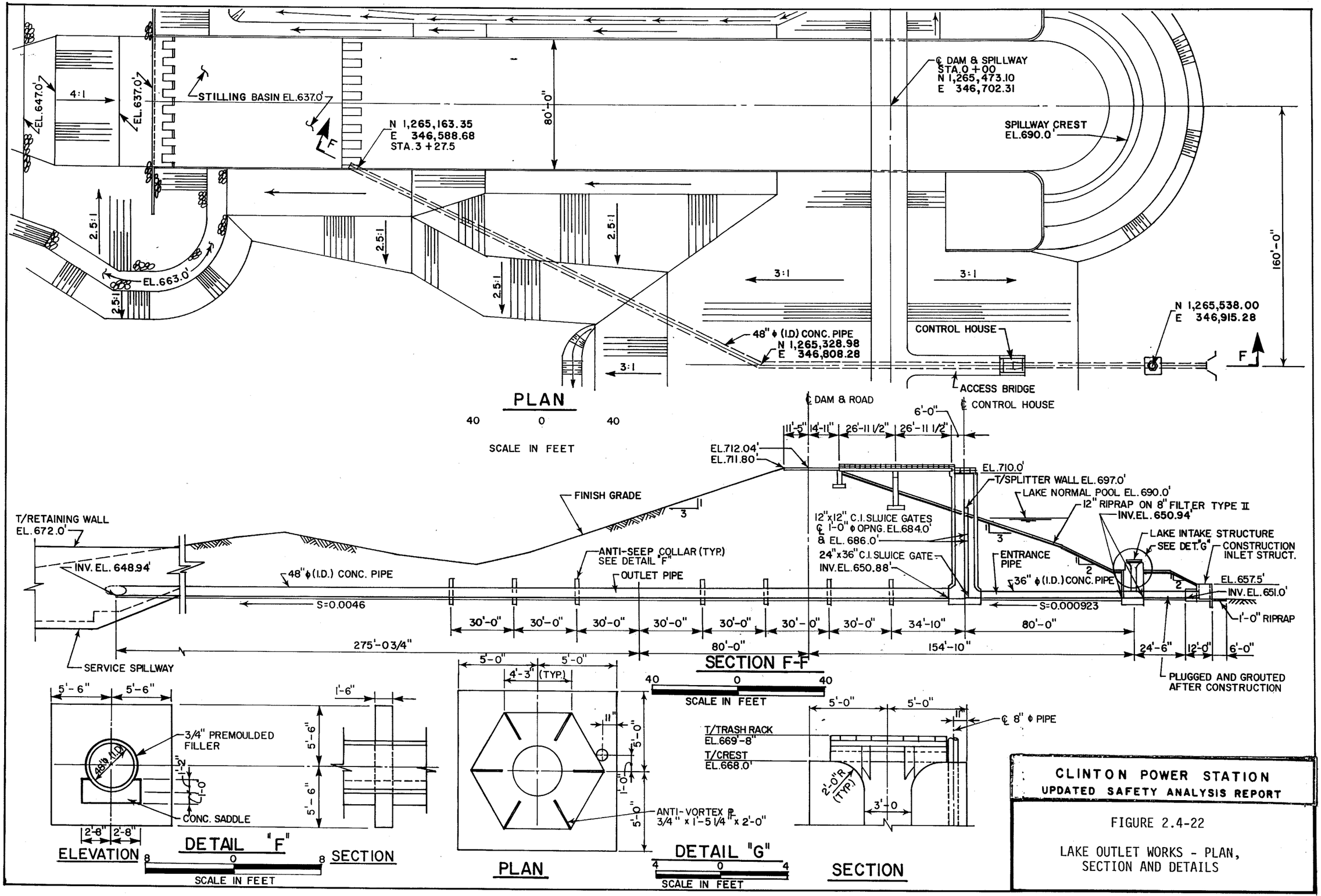
FIGURE 2.4-21

AUXILIARY SPILLWAY SECTIONS AND DETAILS



CLINTON POWER STATION
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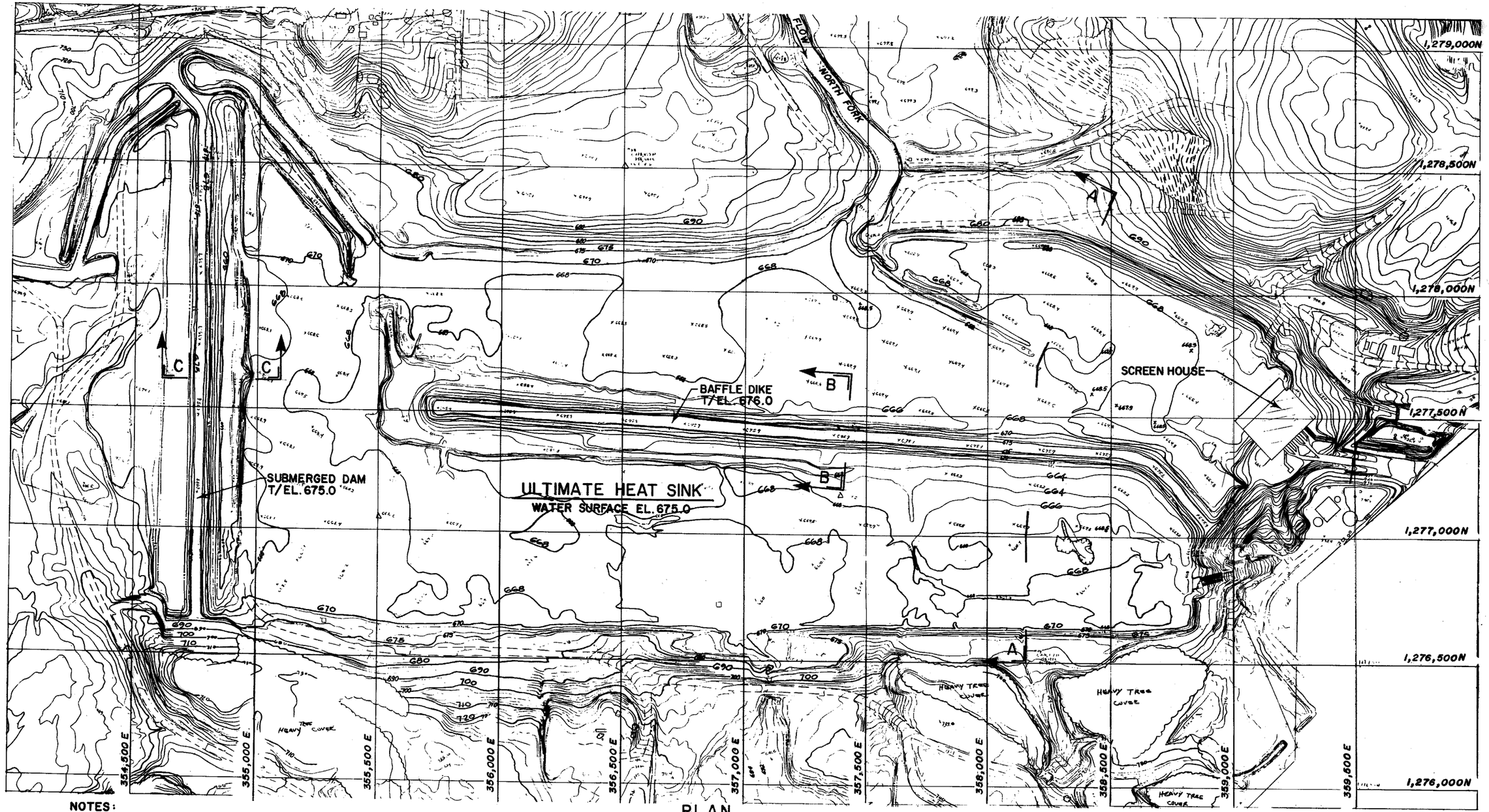
FIGURE 2.4-22

LAKE OUTLET WORKS - PLAN, SECTION AND DETAILS



PLAN

0 400
SCALE IN FEET

NORTH

NOTES:

1. TOPOGRAPHIC MAP OF ULTIMATE HEAT SINK AFTER CONSTRUCTION (OCT. 17, 1977).
2. REFER TO FIGURE 2.4-24 FOR SECTIONS.

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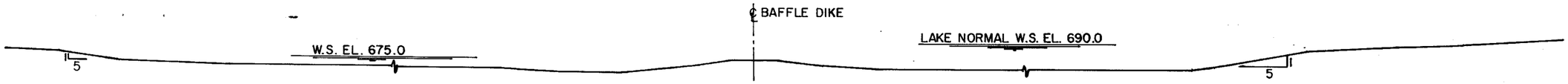
FIGURE 2.4-23

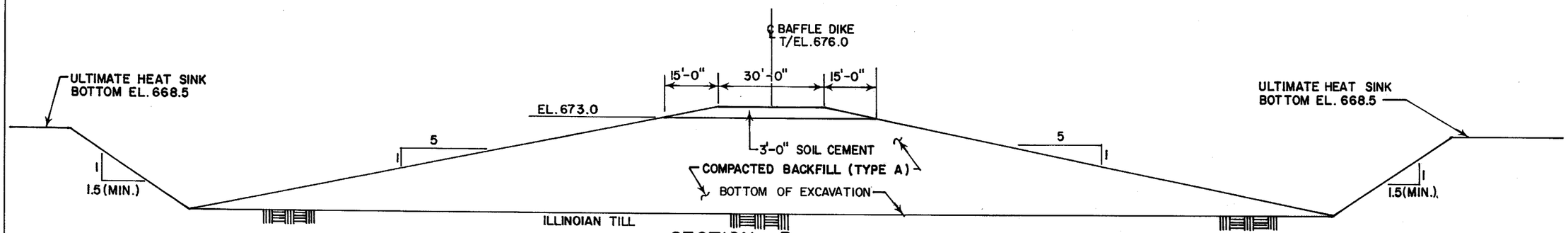
ULTIMATE HEAT SINK PLAN



SECTION A

0 100

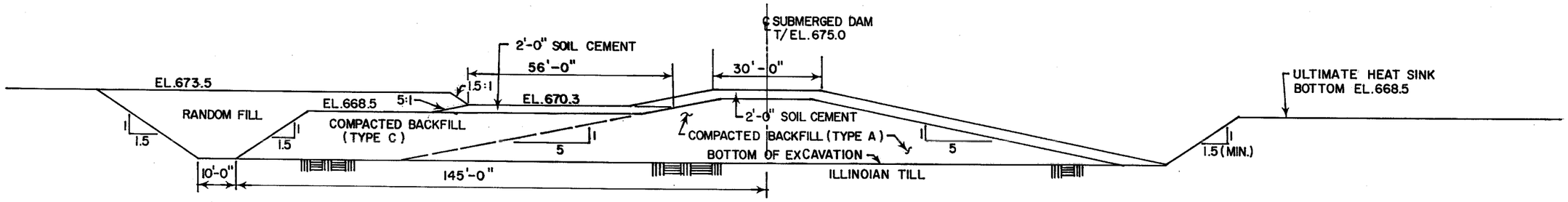
SCALE IN FEET



SECTION B

0 30

SCALE IN FEET



SECTION C

0 30

SCALE IN FEET

NOTES:

1. REFER TO FIGURE 2.4-23 FOR LOCATION OF SECTIONS.

CLINTON POWER STATION

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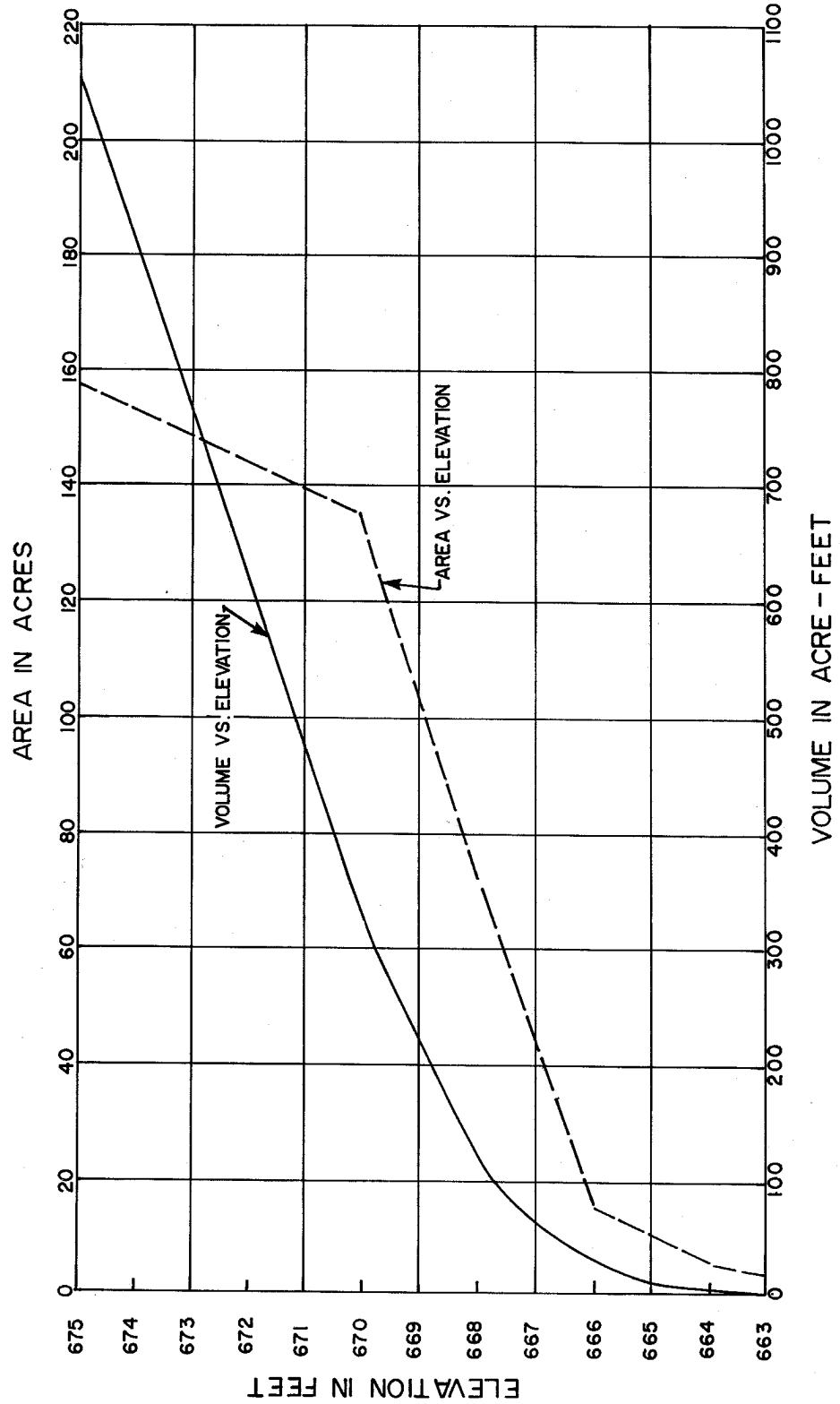
FIGURE 2.4-24

ULTIMATE HEAT SINK SECTIONS



CLINTON POWER STATION
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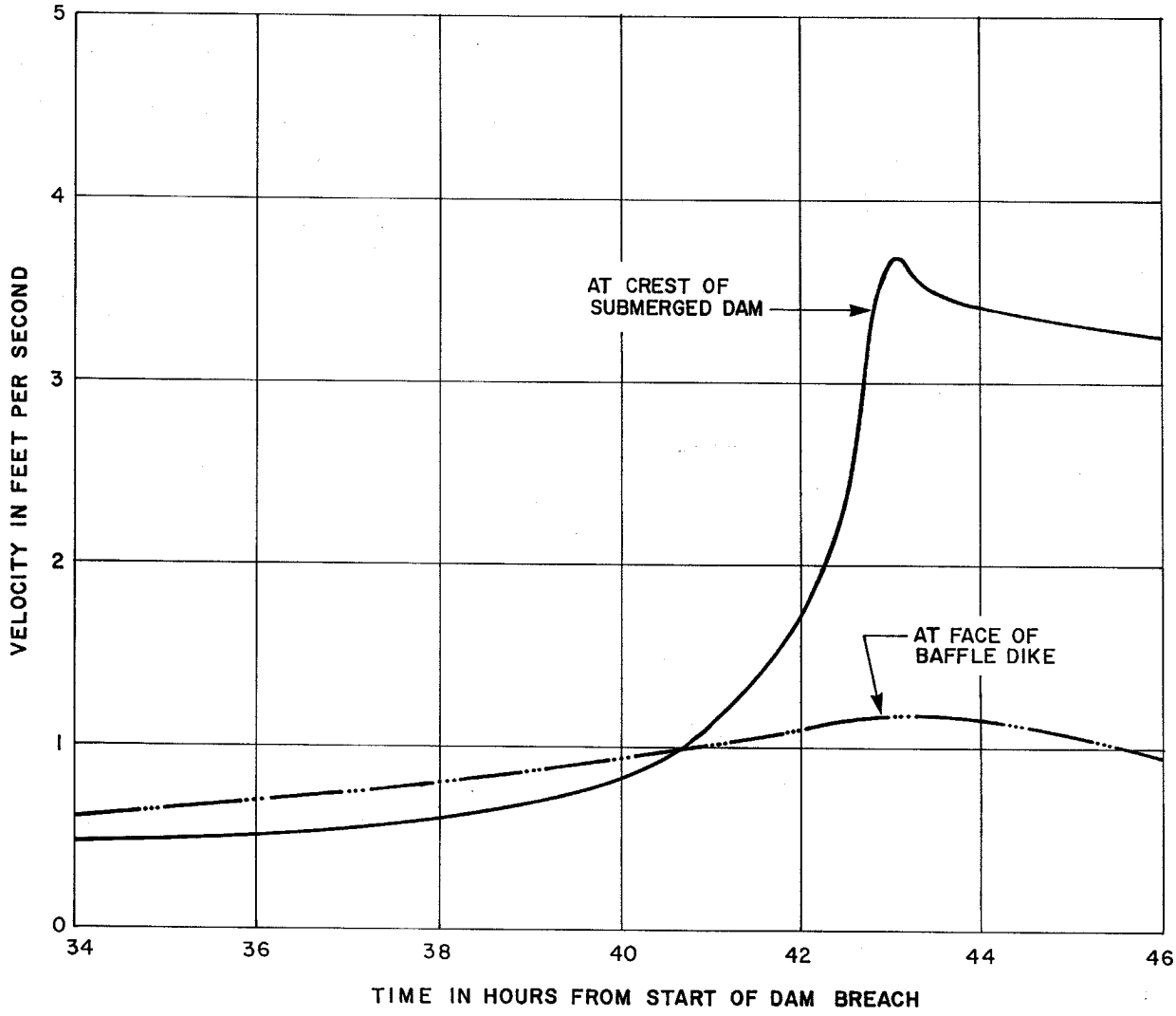
FIGURE 2.4-25

AREA-CAPACITY OF SUBMERGED
ULTIMATE HEAT SINK



CLINTON POWER STATION
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FIGURE 2.4-26

VELOCITY PROFILE OVER SUBMERGED DAM AND BAFFLE DIKE OF ULTIMATE HEAT SINK

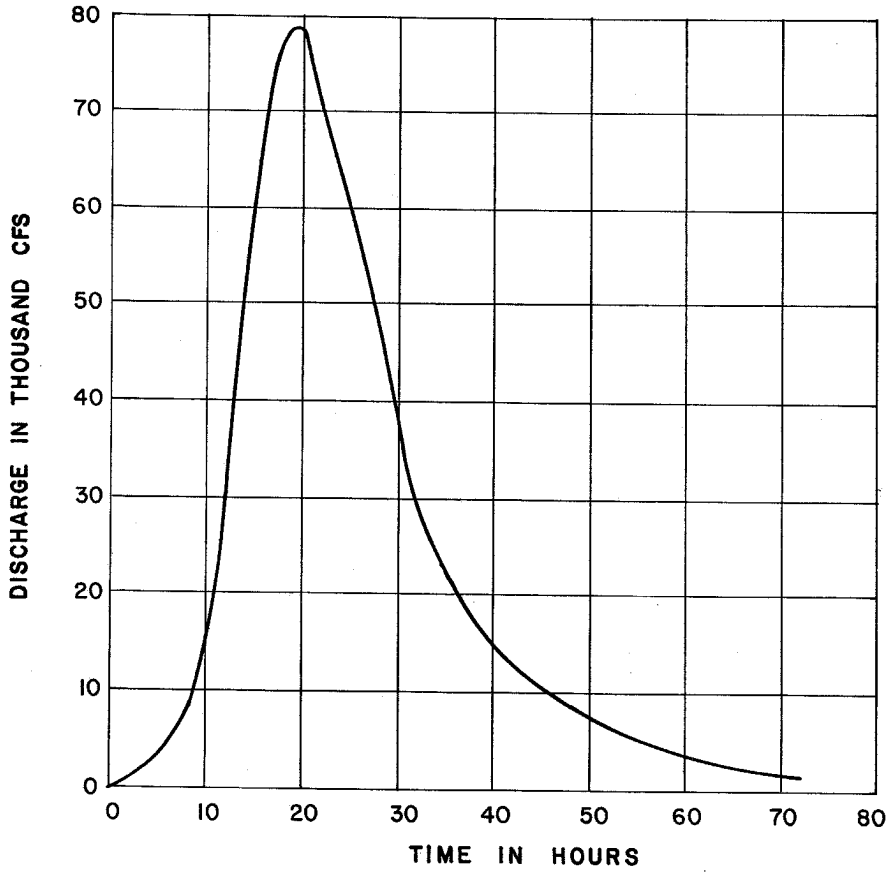

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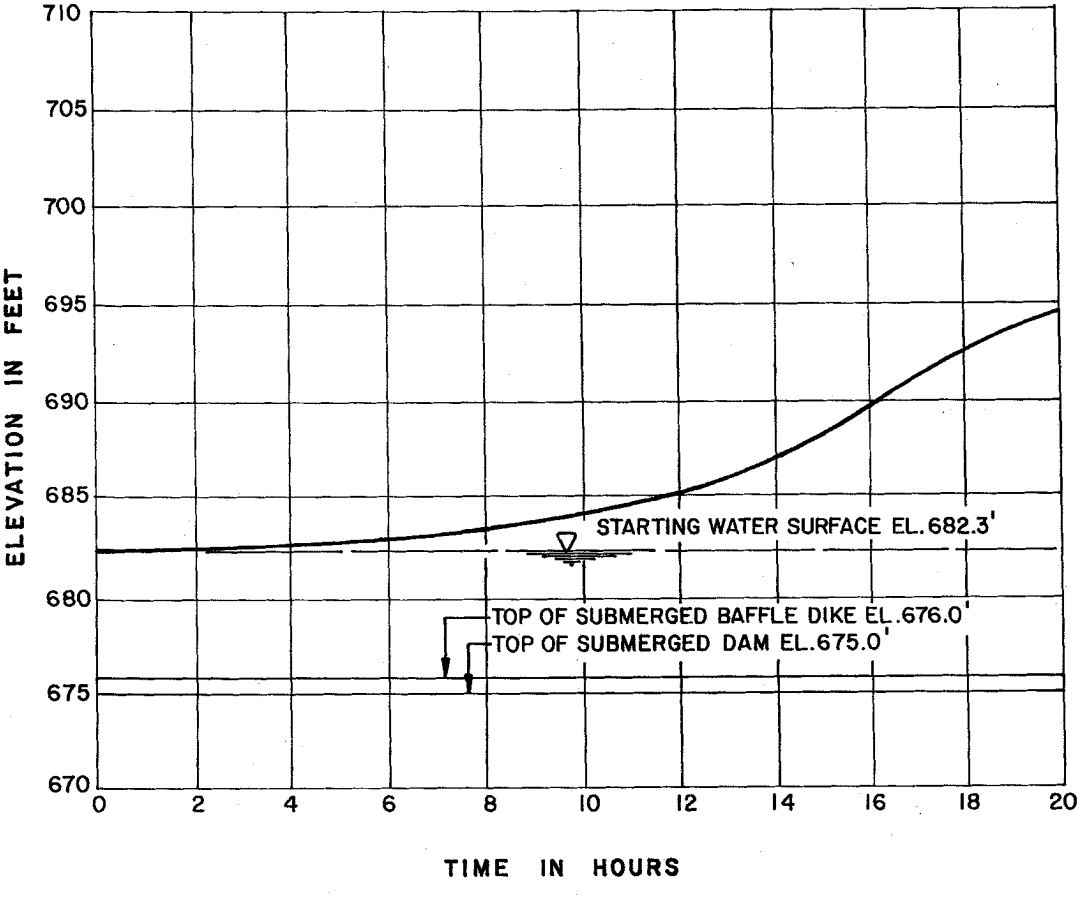
FIGURE 2.4-27

PROBABLE MAXIMUM FLOOD HYDROGRAPH
OF NORTH FORK



CLINTON POWER STATION
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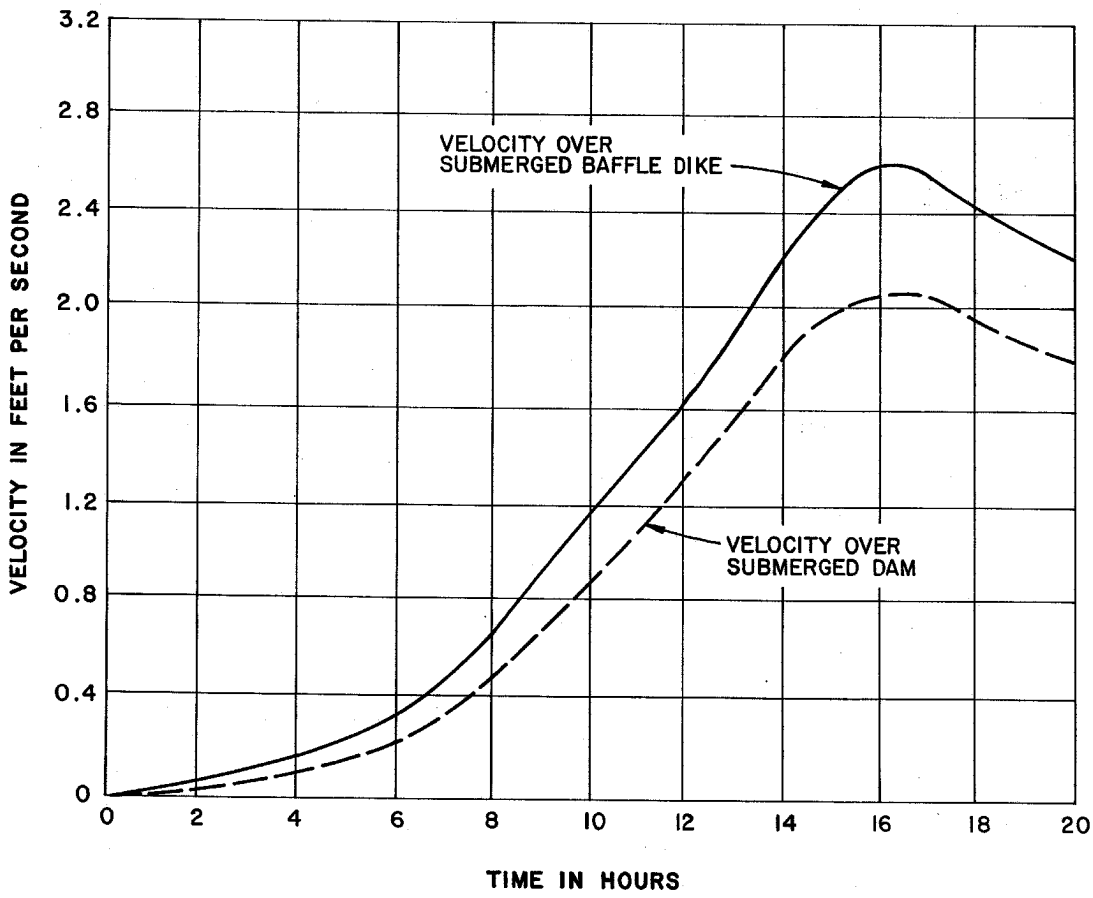
FIGURE 2.4-28

TIME VARIATION OF LAKE ELEVATION DURING NORTH FORK PMF AFTER 100-YEAR DROUGHT



CLINTON POWER STATION
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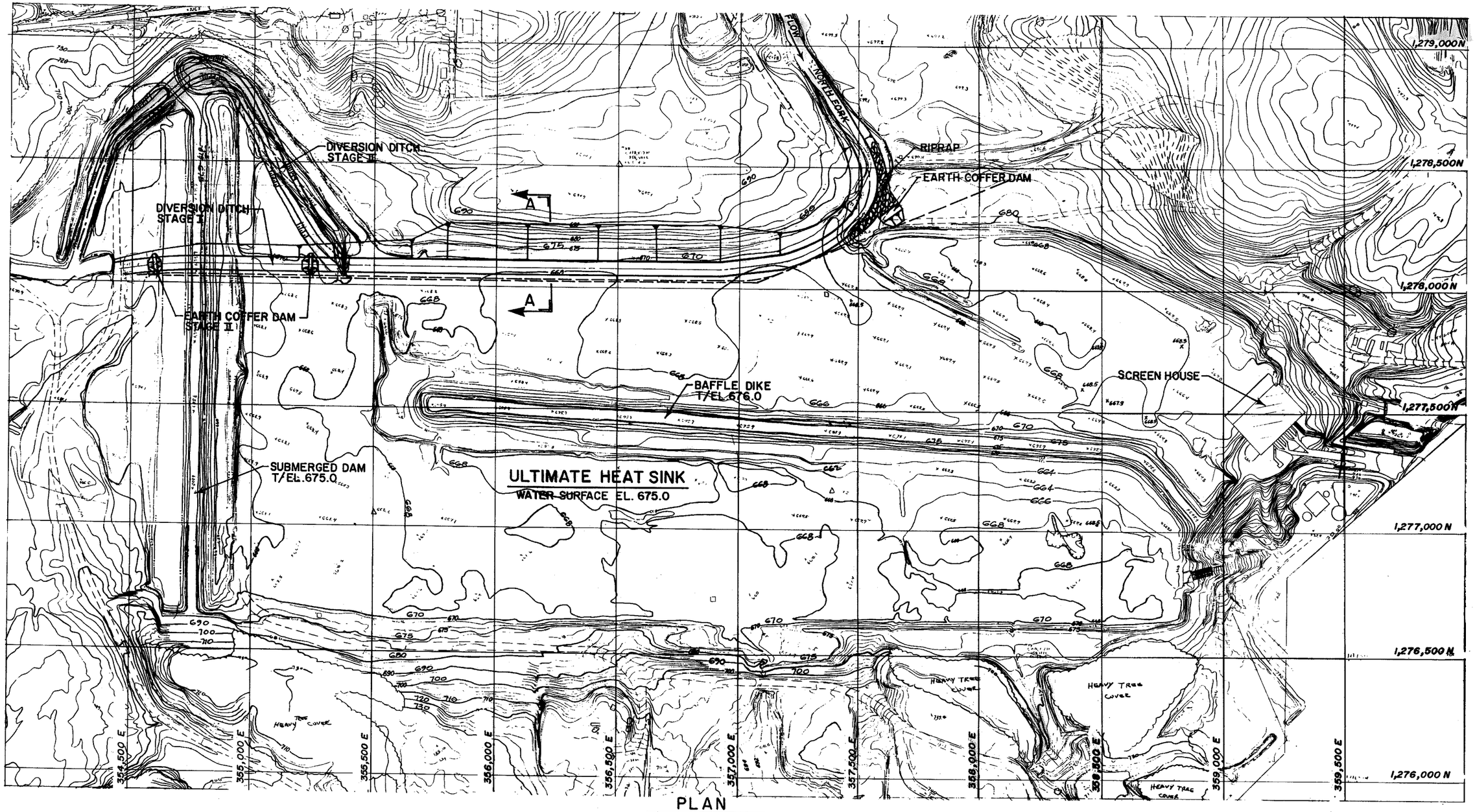
FIGURE 2.4-29

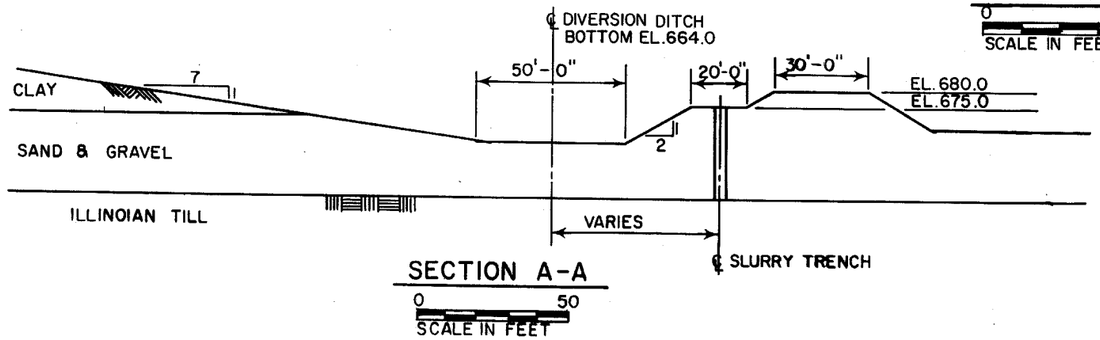
TIME VARIATION OF VELOCITY OVER SUBMERGED STRUCTURES DURING NORTH FORK PMF AFTER 100-YEAR DROUGHT



PLAN

0 400
SCALE IN FEET

NORTH



SECTION A-A

0 50
SCALE IN FEET

CLINTON POWER STATION
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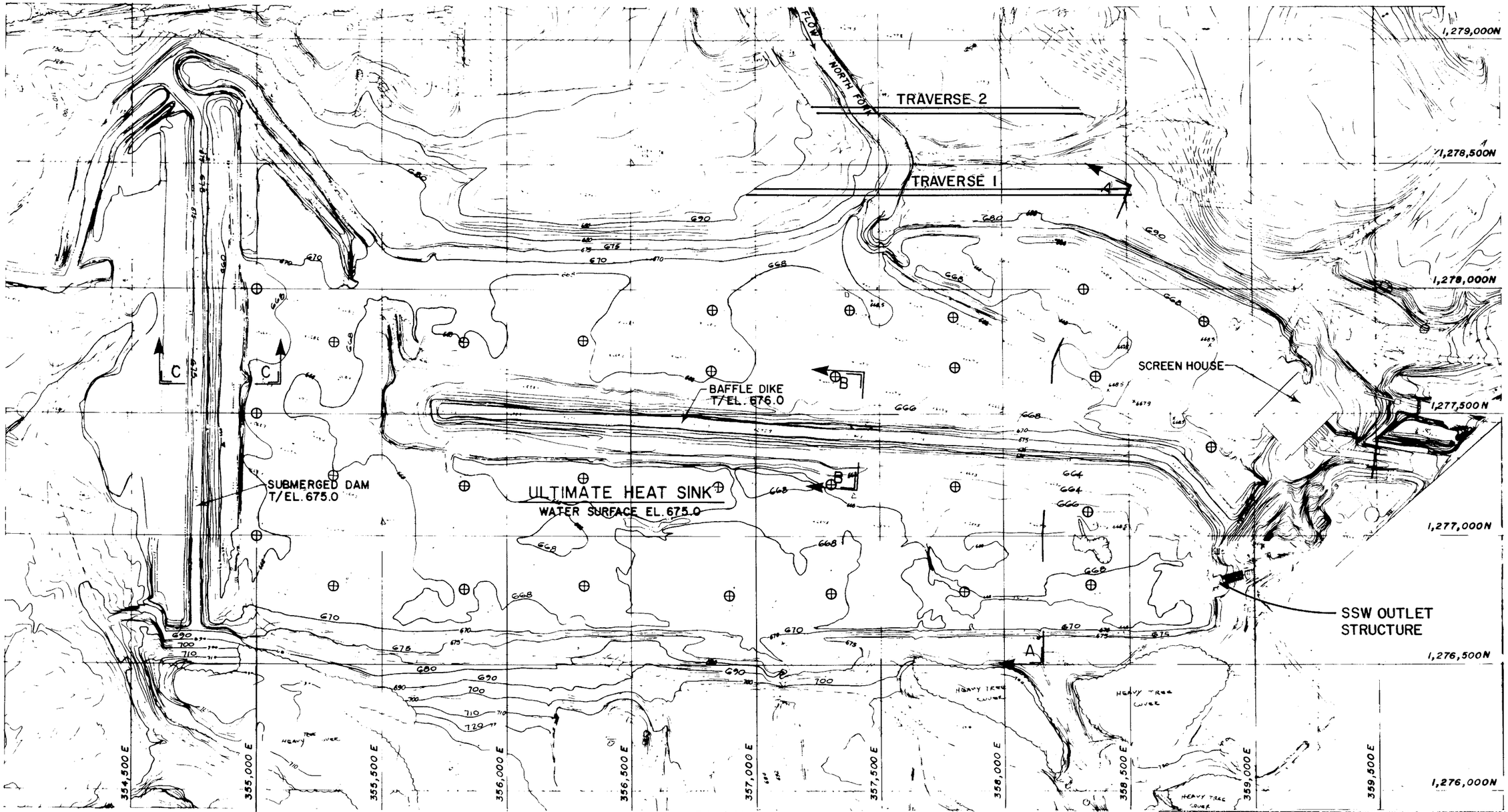
FIGURE 2.4-30

ULTIMATE HEAT SINK DIVERSION SCHEME



PLAN

0 400

SCALE IN FEET

NOTES:

1. TOPOGRAPHIC MAP OF ULTIMATE HEAT SINK AFTER CONSTRUCTION (OCT. 17, 1977).
2. REFER TO FIGURE 2.4-24 FOR SECTIONS.

LEGEND:

⊕ MONITORING LOCATIONS

═══ TRAVERSE FOR SOUNDINGS IN AREA UPSTREAM OF UHS

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FIGURE 2.4-31

ULTIMATE HEAT SINK
MONITORING LOCATIONS

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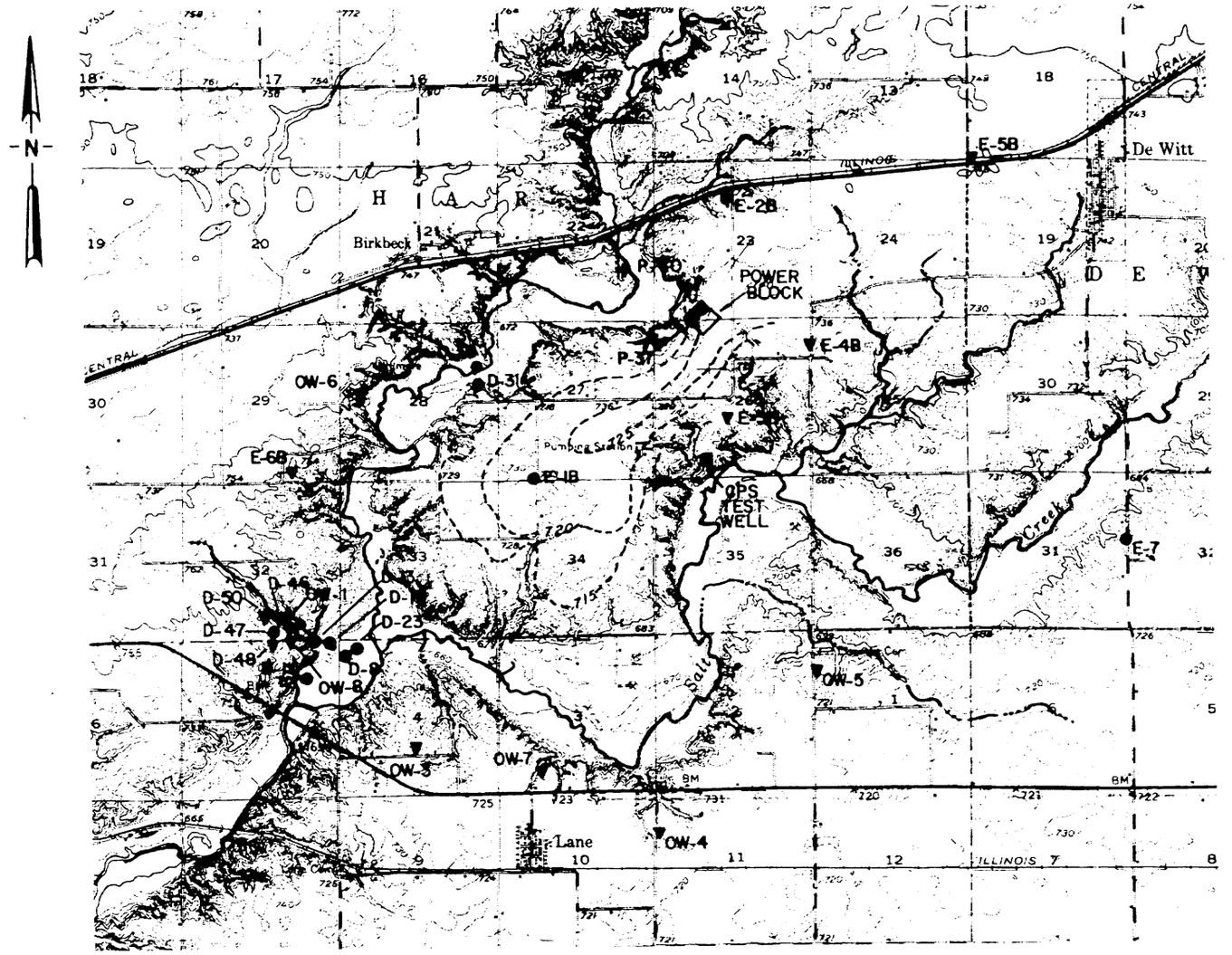

LEGEND:

- ■ CPS TEST WELL
- ▼ FUNCTIONAL PIEZOMETER (AS OF 12-77)
- ● NON-FUNCTIONAL PIEZOMETER (AS OF 12-77)
- INFERRED WATER TABLE CONTOUR, WISCONSINAN DEPOSITS

0
Scale in Miles

NOTES:

1. DATUM IS MEAN SEA LEVEL.
2. ADDITIONAL P-SERIES PIEZOMETERS ARE SHOWNON FIGURE 2.5-16.
3. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
4. BASE MAP MODIFIED FROM USGS, 15' SERIES TOPOGRAPHIS MAP: MAROA, IL., 1957.
5. LOCATIONS OF PIEZOMETERS OW-9 THROUGH OW-17 ARE SHOWN ON FIGURE 2.5-272.

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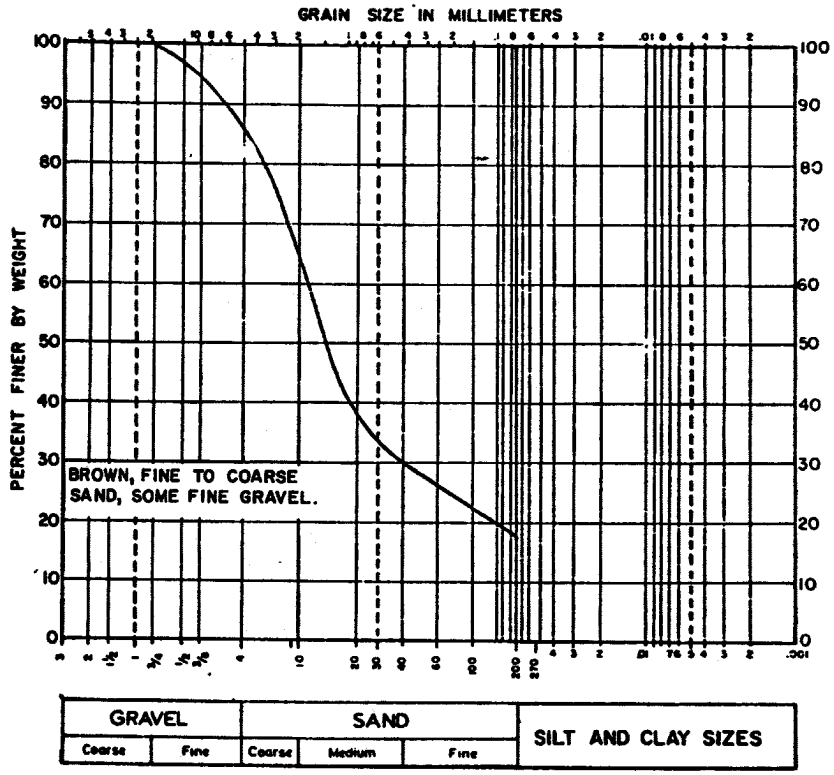
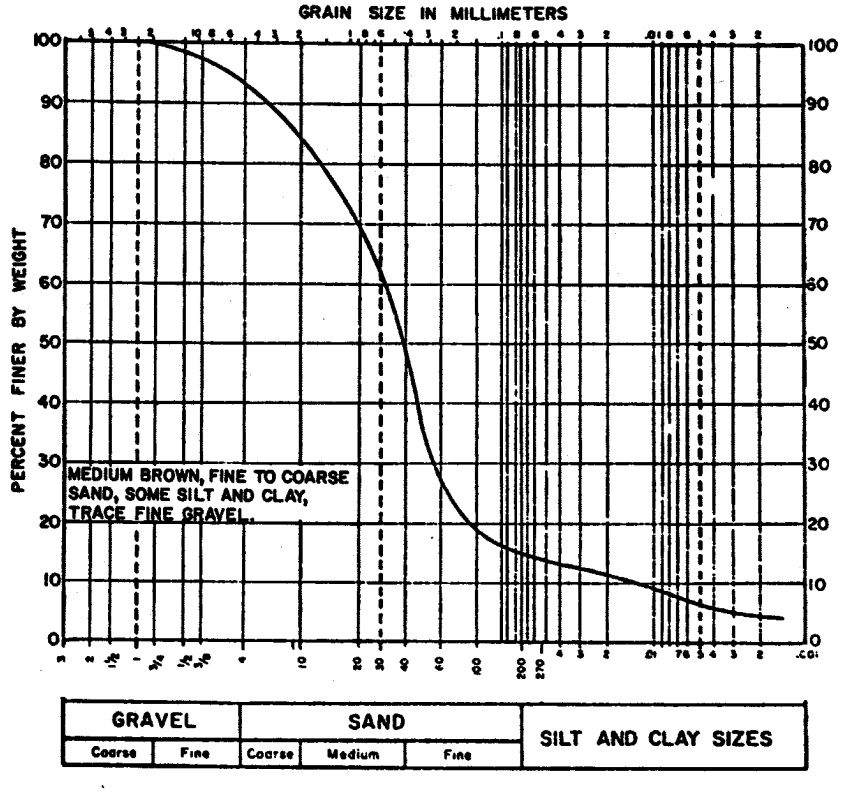
FIGURE 2.4-32

LOCATIONS OF PIEZOMETERS, CPS TEST WELL, AND WATER TABLE IN SITE VICINITY



Boring No.	Sample No.	Depth	
		from	to
PH-2	1	10.0	15.0
Classification			
SM			



Boring No	Sample No	Depth	
		from	to
PH-10	1	22.0	24.0
Classification			
SM			

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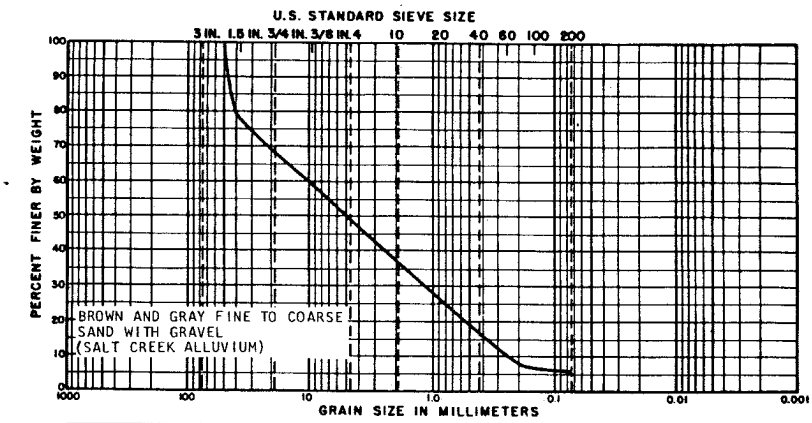
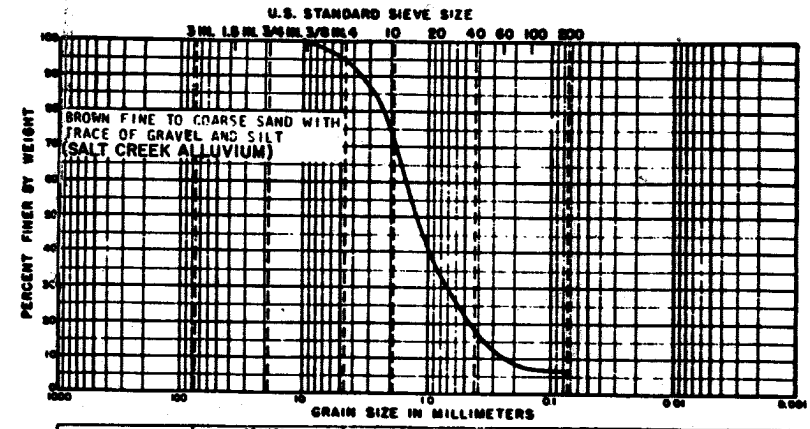
FIGURE 2.4-33

PARTICLE SIZE ANALYSES
(BORINGS PH-2 AND PH-10)



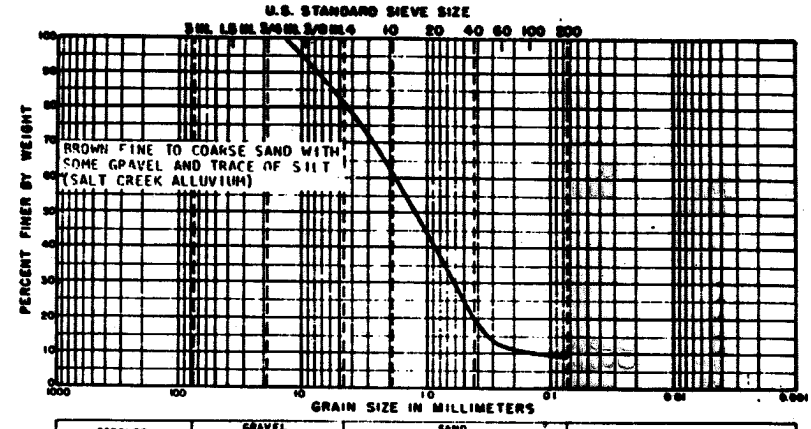
COBBLES	GRAVEL COARSE	GRAVEL FINE	SAND COARSE	SAND MEDIUM	SAND FINE	SILT OR CLAY

BORING	DEPTH	CLASSIFICATION	NAT. WC	LL	PL	PI
D-10	14.0	SP-SW	7.5			



COBBLES	GRAVEL COARSE	GRAVEL FINE	SAND COARSE	SAND MEDIUM	SAND FINE	SILT OR CLAY

BORING	DEPTH	CLASSIFICATION	NAT. WC	LL	PL	PI
D-13	24.0	SP-SW	6.4			



COBBLES	GRAVEL COARSE	GRAVEL FINE	SAND COARSE	SAND MEDIUM	SAND FINE	SILT OR CLAY

BORING	DEPTH	CLASSIFICATION	NAT. WC	LL	PL	PI
D-19	25.0	SP-SW	13.5			

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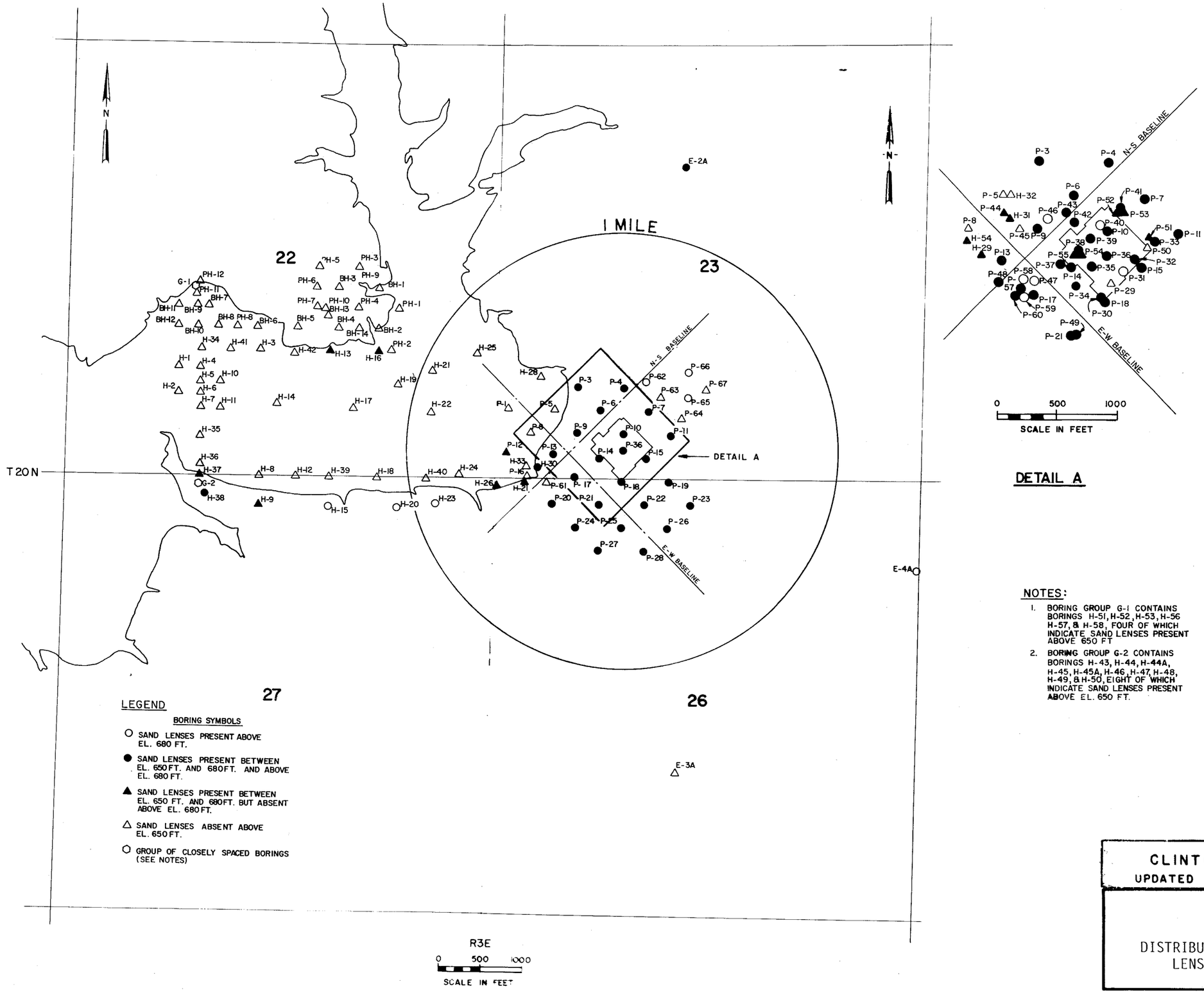
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-34

PARTICLE SIZE ANALYSES
(BORINGS D-10, D-13 AND D-19)



DETAIL A

LEGEND

BORING SYMBOLS

- ○ SAND LENSES PRESENT ABOVE EL. 680 FT.
- ● SAND LENSES PRESENT BETWEEN EL. 650 FT. AND 680 FT. AND ABOVE EL. 680 FT.
- ▲ SAND LENSES PRESENT BETWEEN EL. 650 FT. AND 680 FT. BUT ABSENT ABOVE EL. 680 FT.
- △ SAND LENSES ABSENT ABOVE EL. 650 FT.
- ⬡ GROUP OF CLOSELY SPACED BORINGS (SEE NOTES)

NOTES:

1. BORING GROUP G-1 CONTAINS BORINGS H-51, H-52, H-53, H-56 H-57, & H-58, FOUR OF WHICH INDICATE SAND LENSES PRESENT ABOVE 650 FT
2. BORING GROUP G-2 CONTAINS BORINGS H-43, H-44, H-44A, H-45, H-45A, H-46, H-47, H-48, H-49, & H-50, EIGHT OF WHICH INDICATE SAND LENSES PRESENT ABOVE EL. 650 FT.

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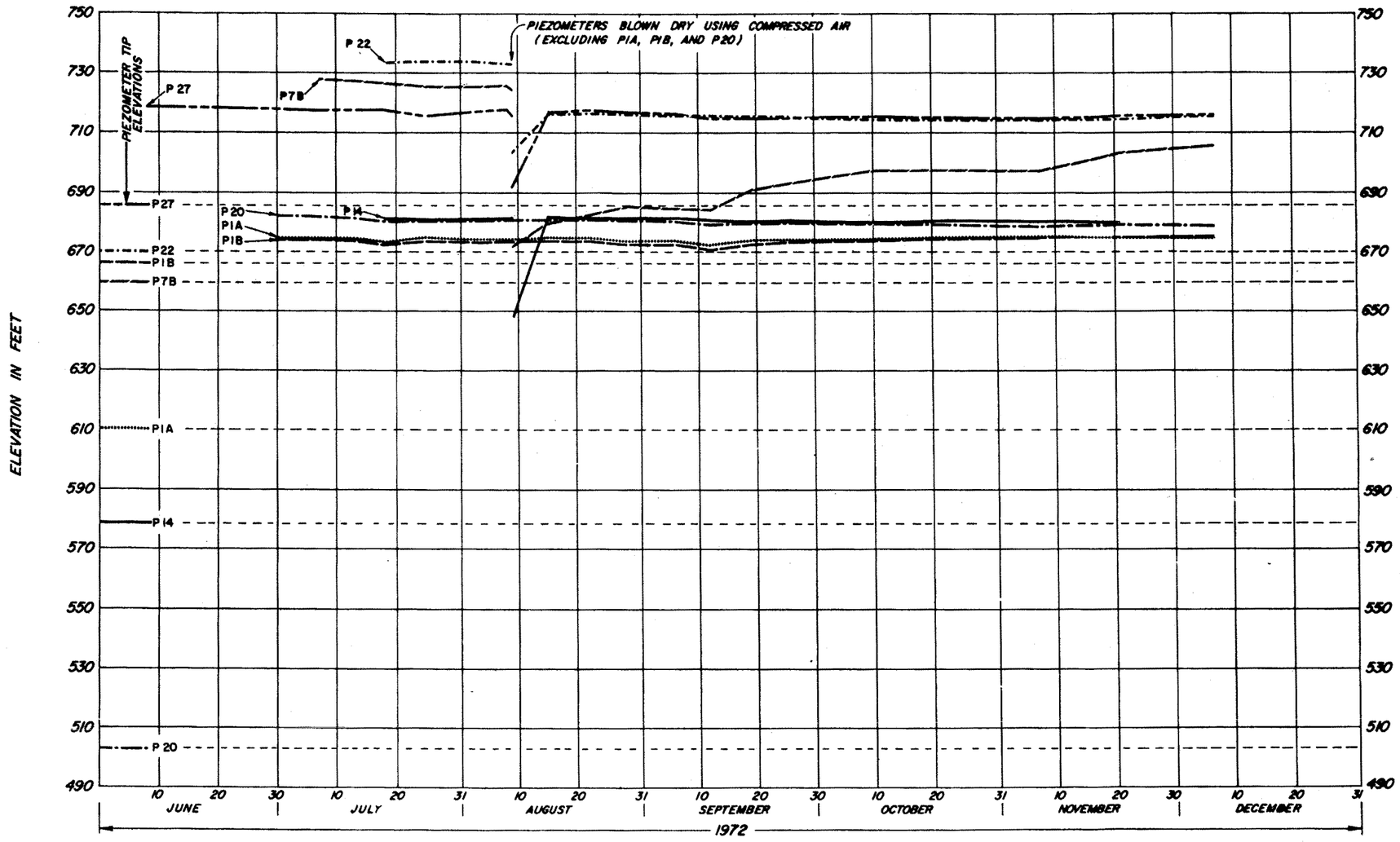
FIGURE 2.4-35

DISTRIBUTION OF SUBSURFACE SAND LENSES IN SITE VICINITY



NOTES:

1. PIEZOMETERS INSTALLED IN ENCOUNTERED SAND LENSES TO INCREASE THEIR EFFICIENCY TO MEASURE FLUCTUATIONS IN GROUNDWATER LEVELS WITHIN ILLINOIAN TILL.
2. REFER TO FIGURE 2.5-16 FOR LOCATION OF PIEZOMETERS.
3. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.

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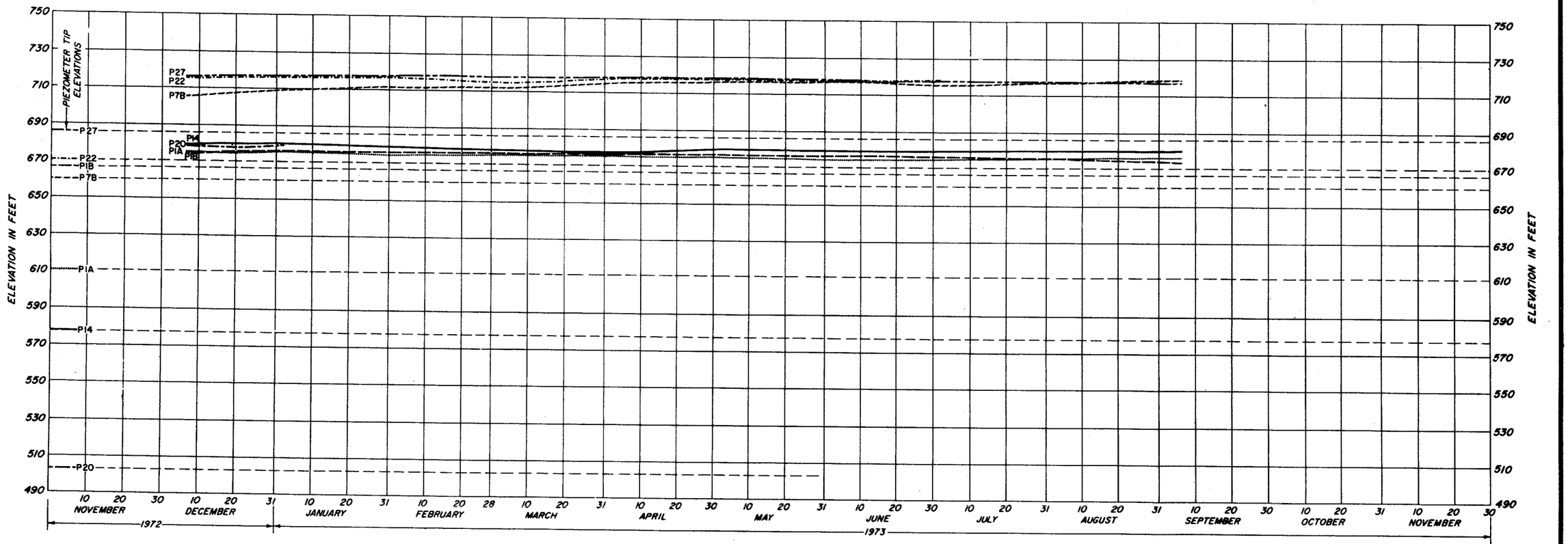
FIGURE 2.4-36

WATER LEVEL OBSERVATIONS, STATION SITE
(SHEET 1 of 2)



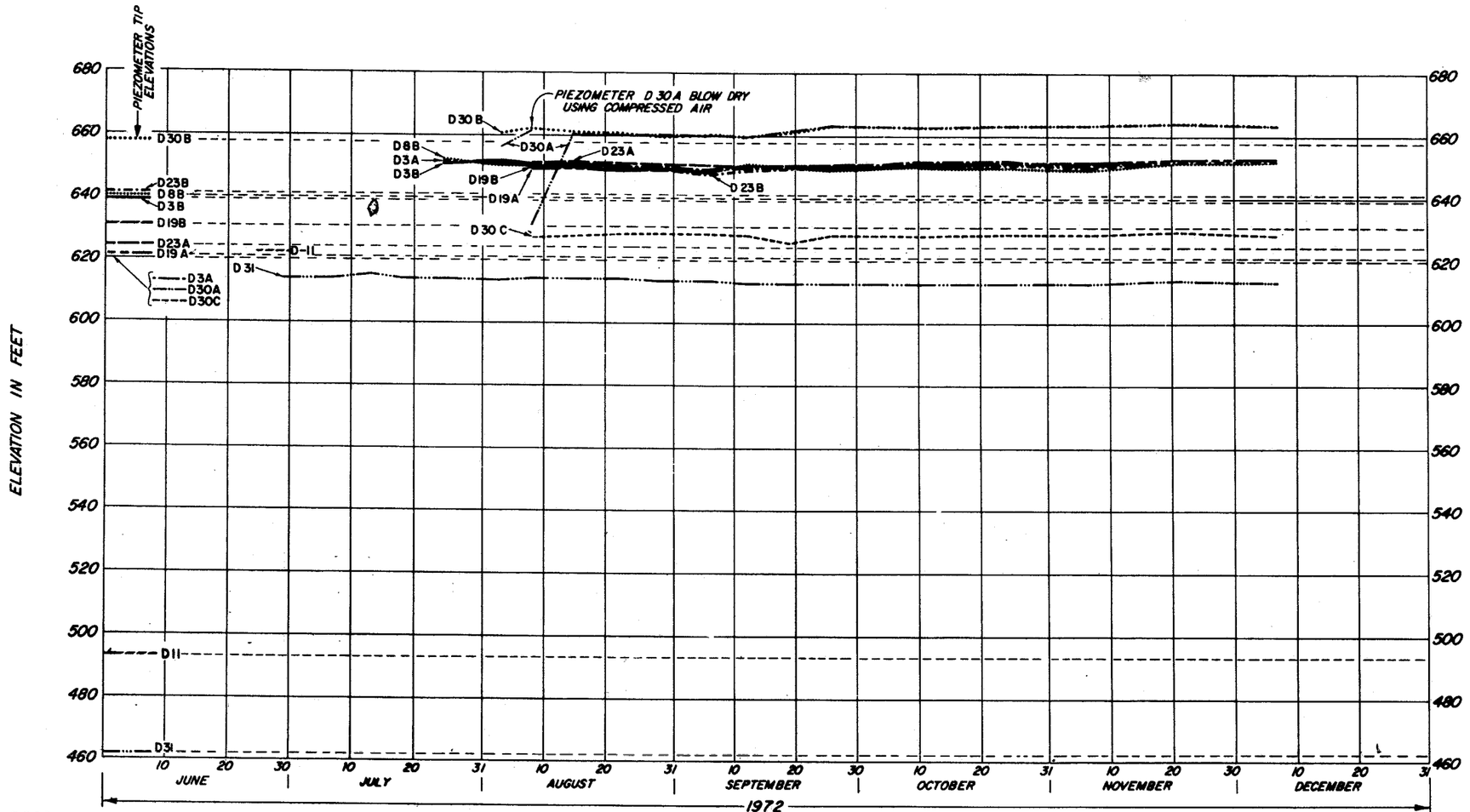
NOTES:

1. PIEZOMETERS INSTALLED IN ENCOUNTERED SAND LENSES TO INCREASE THEIR EFFICIENCY TO MEASURE FLUCTUATIONS IN GROUNDWATER LEVELS WITHIN ILLINOIAN TILL.
2. REFER TO FIGURE 2.5-16 FOR LOCATION OF PIEZOMETERS.
3. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-36

WATER LEVEL OBSERVATIONS, STATION SITE
(SHEET 2 of 2)



NOTES:

1. PIEZOMETERS D3A, D19A, D23A, D30A AND D30C INSTALLED IN THE ILLINOIAN TILL.
2. PIEZOMETERS D3B, D8B, D19B, D23B AND D30B INSTALLED IN THE SALT CREEK ALLUVIUM.
3. PIEZOMETERS D11 AND D31 INSTALLED WITHIN THE BEDROCK AND MAHOMET BEDROCK VALLEY DEPOSIT.
4. PIEZOMETER D11 INOPERATIVE AFTER JUNE 29, 1973 WITH WATER LEVELS BELOW ELEVATION 619.3.
5. REFER TO FIGURE 2.4-32 FOR LOCATION OF PIEZOMETERS.
6. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.

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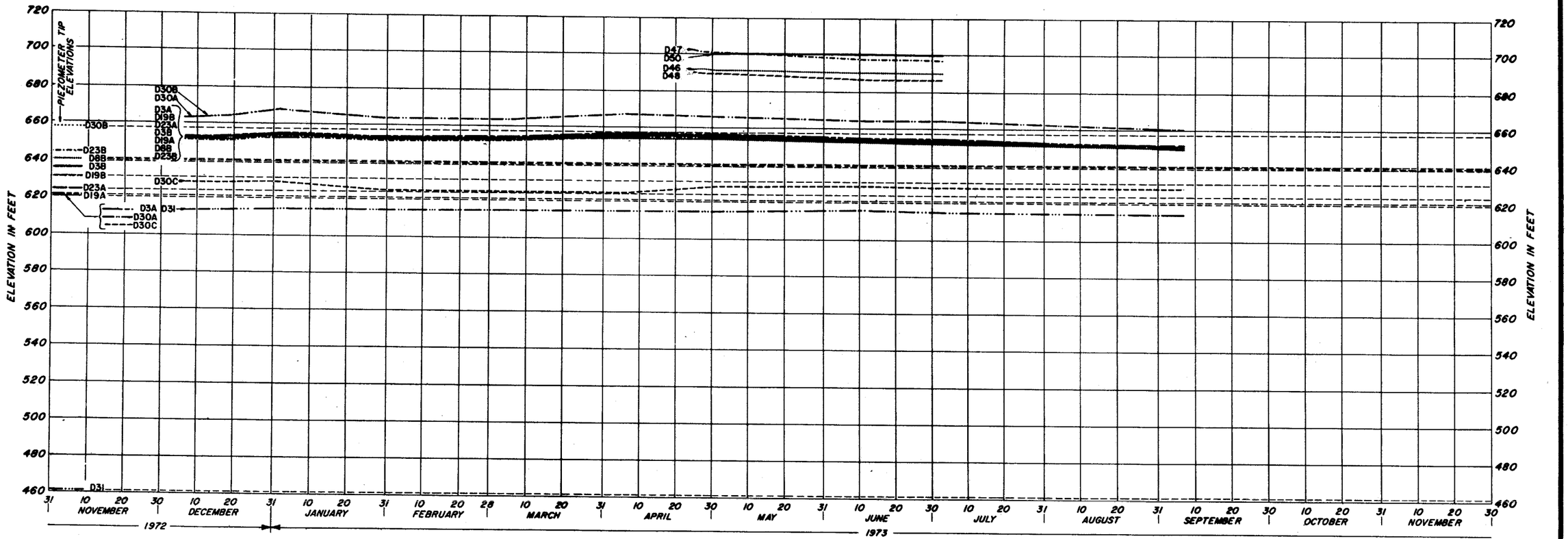
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-37

WATER LEVEL OBSERVATIONS, DAM SITES

(SHEET 1 of 2)



NOTES:

1. PIEZOMETERS D3A, D19A, D23A, D30A AND D30C INSTALLED IN THE ILLINOIAN TILL.
2. PIEZOMETERS D3B, D8B, D19B, D23B AND D30B INSTALLED IN THE SALT CREEK ALLUVIUM.
3. PIEZOMETERS D11 AND D31 INSTALLED WITHIN THE BEDROCK AND MAHOMET BEDROCK VALLEY DEPOSIT.
4. PIEZOMETER D11 INOPERATIVE AFTER JUNE 29, 1973 WITH WATER LEVELS BELOW ELEVATION 619.3.
5. REFER TO FIGURE 2.4-32 FOR LOCATION OF PIEZOMETERS.
6. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
7. PIEZOMETERS D46, D47 AND D48 INSTALLED IN WISCONSINAN AND ILLINOIAN TILL.
8. PIEZOMETER D50 INSTALLED IN THE WISCONSINAN TILL.

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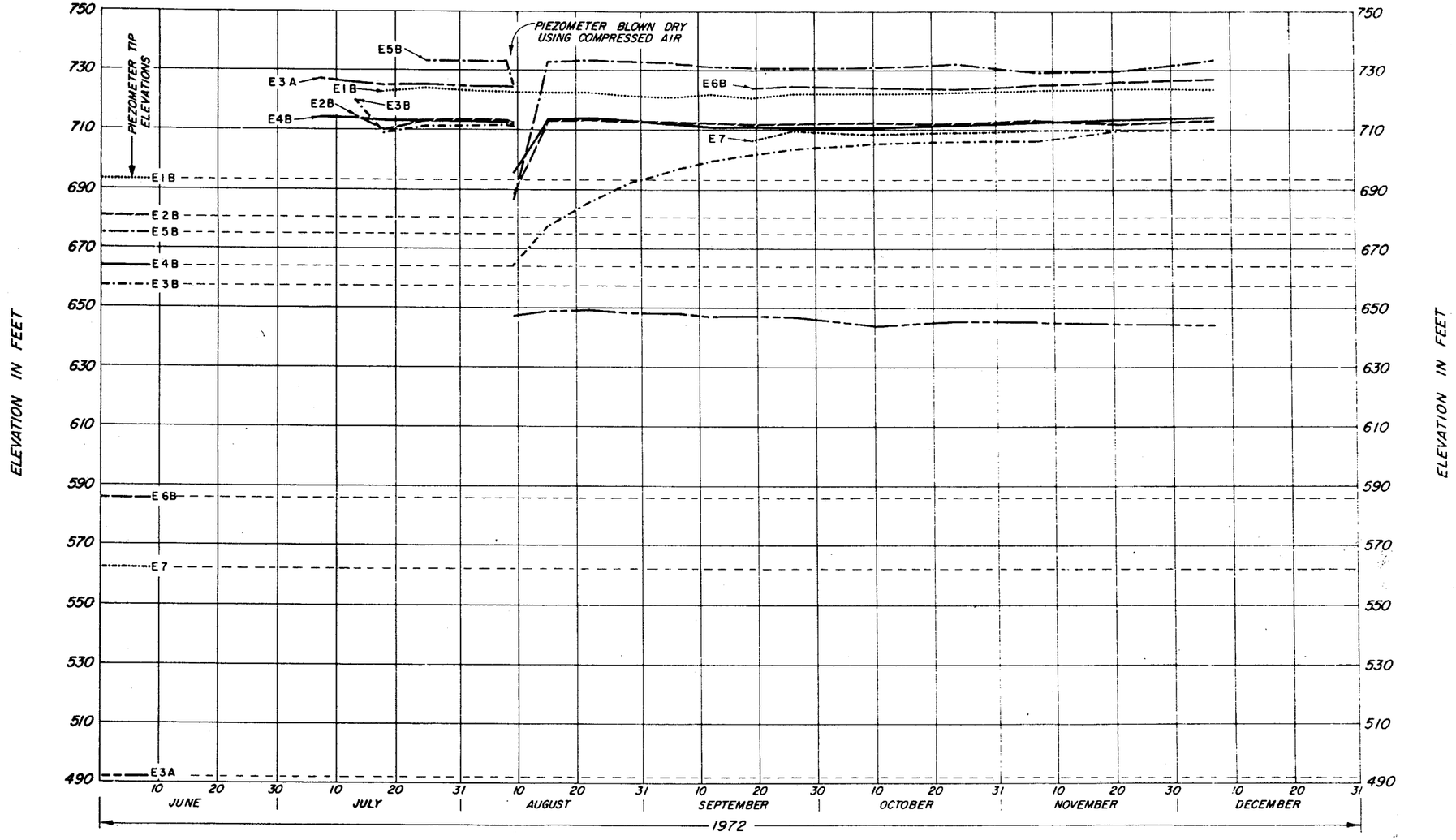
FIGURE 2.4-37

WATER LEVEL OBSERVATIONS, DAM SITES

(SHEET 2 of 2)



NOTES:

1. PIEZOMETER E1B INSTALLED IN THE WISCONSINAN TILL.
2. PIEZOMETERS E2B, E3B, E4B AND E5B INSTALLED IN THE ILLINOIAN TILL.
3. PIEZOMETER E3A INSTALLED IN THE MAHOMET BEDROCK VALLEY DEPOSIT.
4. PIEZOMETERS E6B AND E7 WERE PERFORATED OVER THEIR ENTIRE LENGTHS.
5. REFER TO FIGURE 2.4-32 FOR LOCATION OF PIEZOMETERS.

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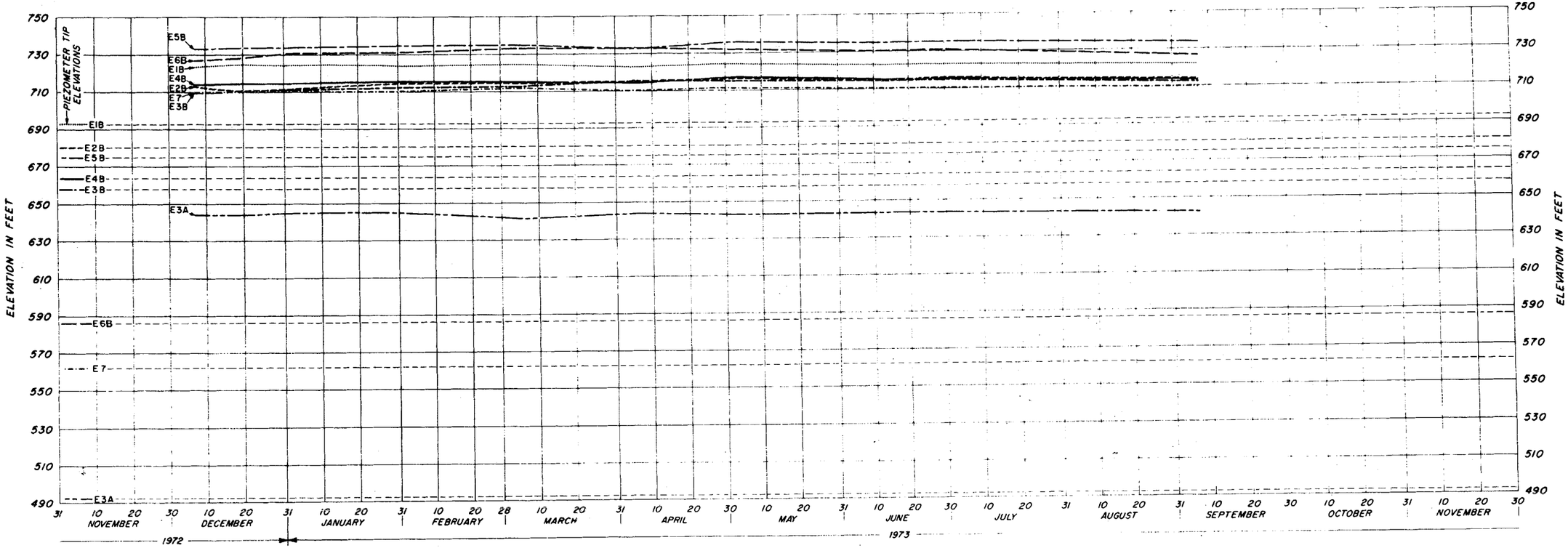
FIGURE 2.4-38

WATER LEVEL OBSERVATIONS, BORINGS E-1B TO E-7

(SHEET 1 of 2)



NOTES:

1. PIEZOMETER E1B INSTALLED IN THE WISCONSINAN TILL.
2. PIEZOMETERS E2B, E3B, E4B AND E5B INSTALLED IN THE ILLINOIAN TILL.
3. PIEZOMETER E3A INSTALLED IN THE MAHOMET BEDROCK VALLEY DEPOSIT.
4. PIEZOMETERS E6B AND E7 WERE PERFORATED OVER THEIR ENTIRE LENGTHS.
5. REFER TO FIGURE 2.4-32 FOR LOCATION OF PIEZOMETERS.

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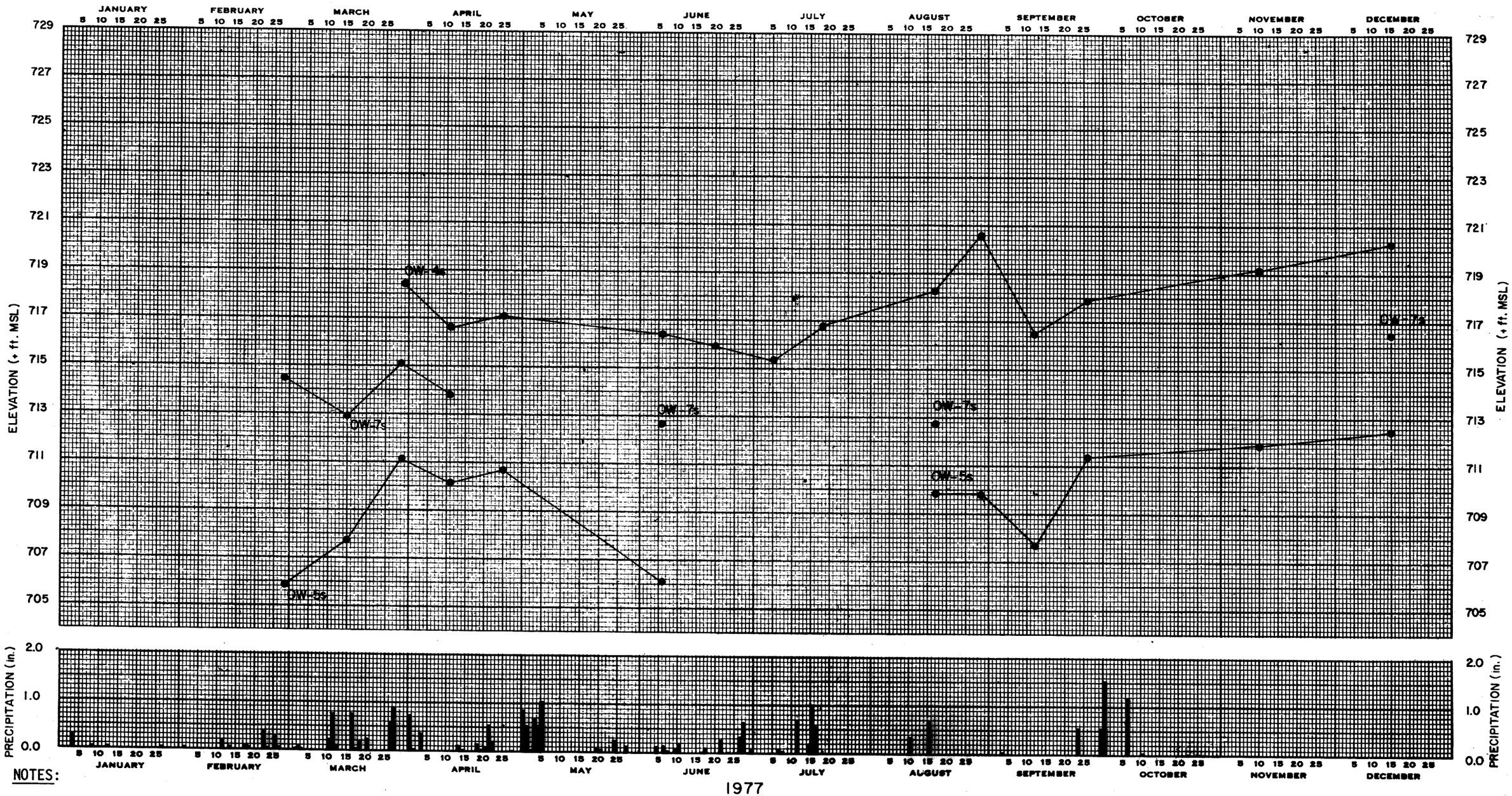
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-38

WATER LEVEL OBSERVATIONS, BORINGS E-1B TO E-7

(SHEET 2 of 2)



NOTES:

1977

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. ONSITE PRECIPITATION DATA ARE NOT AVAILABLE FROM JULY 19 THROUGH AUGUST 9 OR FROM OCTOBER 19 THROUGH DECEMBER 31, 1977.
4. PIEZOMETER OW-3s HAS BEEN REPORTED AS DRY SINCE INSTALLATION EXCEPT ON NOVEMBER 3, 1976, AND DECEMBER 15, 1977, WHEN GROUNDWATER LEVELS OF 728.6 AND 731.1 FT MSL, RESPECTIVELY, WERE RECORDED.
5. PIEZOMETER OW-4s WAS REPORTED AS DRY IN 1976, EXCEPT ON AUGUST 3, 1976, WHEN A GROUNDWATER LEVEL OF 718.4 FT MSL WAS RECORDED.
6. PIEZOMETERS OW-5s AND OW-7s WERE REPORTED AS DRY IN 1976.
7. RECORDED GROUNDWATER LEVELS IN INDIVIDUAL PIEZOMETERS ARE NOT SHOWN CONNECTED WHENEVER A SUBSEQUENT MEASUREMENT INDICATED THE PIEZOMETER WAS DRY.
8. PIEZOMETER OW-6s HAS BEEN REPORTED AS DRY SINCE INSTALLATION EXCEPT ON JULY 18, 1977, WHEN A GROUNDWATER LEVEL OF 736.3 FT MSL WAS RECORDED.

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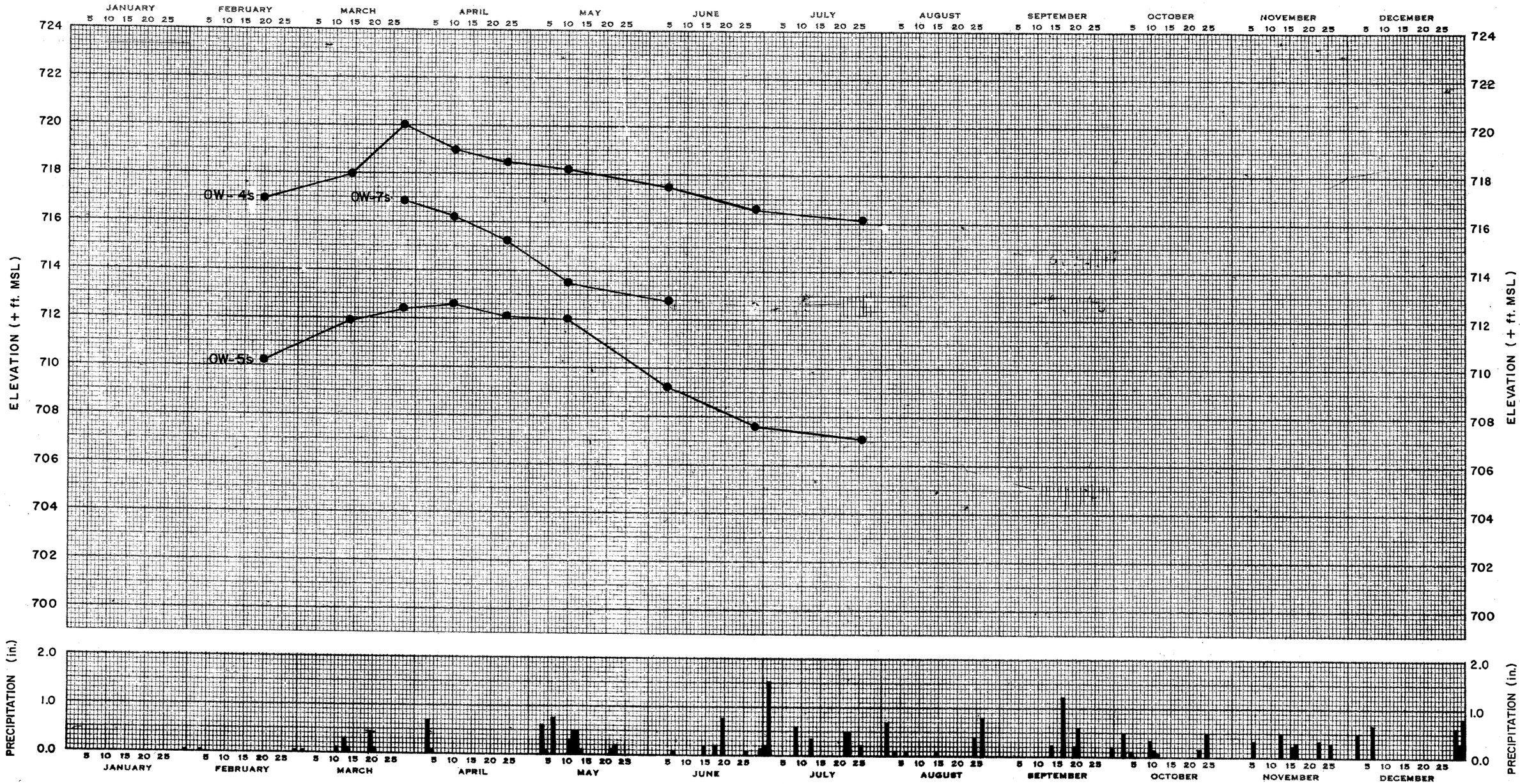
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-39

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 1

(SHEET 1 of 3)



NOTES:

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JANUARY 1 TO JANUARY 27, FEBRUARY 6 TO FEBRUARY 15, MARCH 22 TO MARCH 31, APRIL 6 TO APRIL 26, AND AUGUST 17 TO AUGUST 22.
4. NO GROUND WATER LEVEL DATA WERE REPORTED FOR JANUARY OR FROM SEPTEMBER 15 THROUGH DECEMBER 31, 1978.
5. PIEZOMETERS OW-4s AND OW-5s WERE REPORTED DRY ON SEPTEMBER 14 1978.
6. PIEZOMETER OW-7s WAS REPORTED DRY ON FEBRUARY 20, MARCH 14, AND FROM JUNE 28 TO SEPTEMBER 14, 1978.

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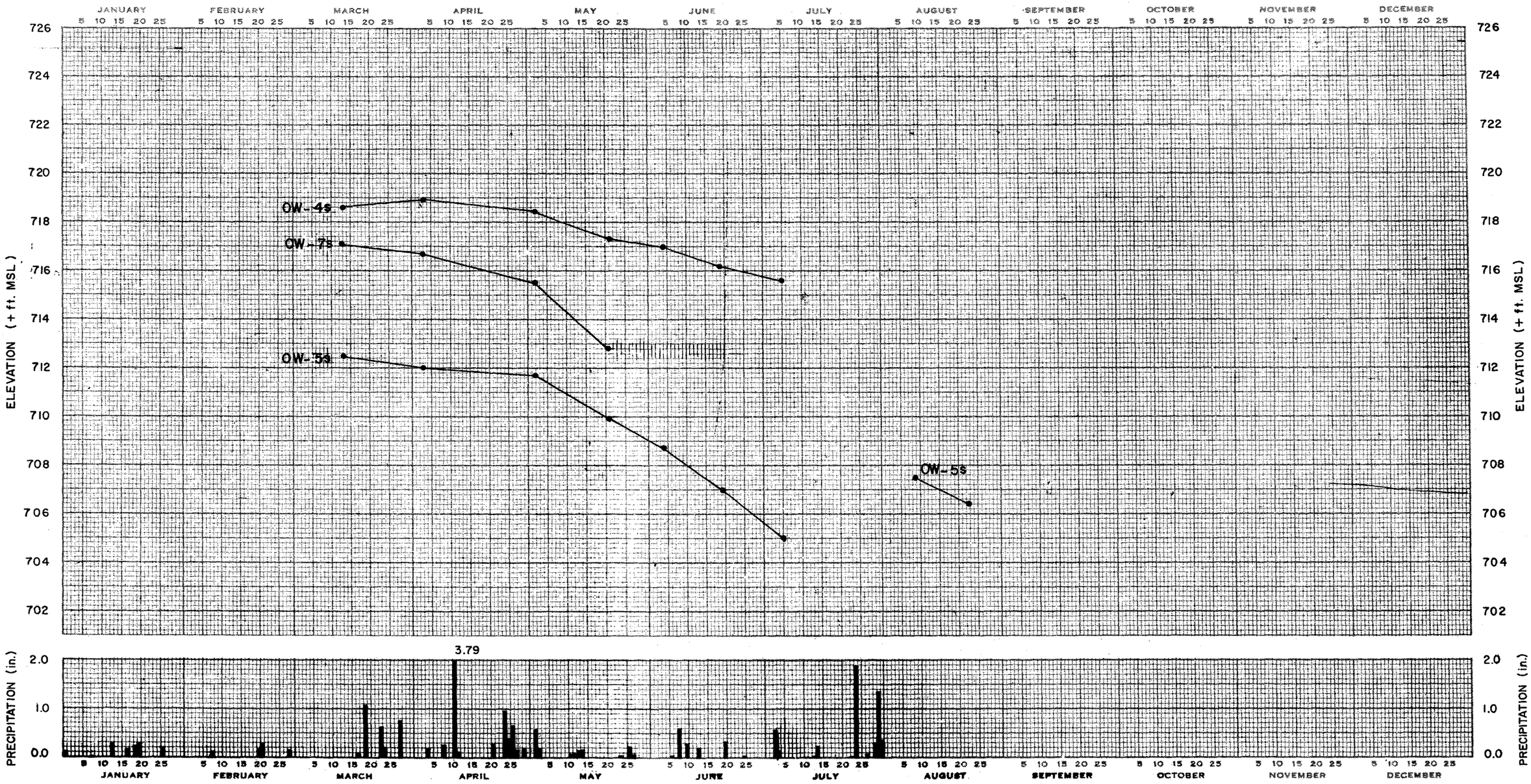
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-39

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 1

(SHEET 2 of 3)



NOTES:

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JANUARY 30 AND 31, MARCH 2 THROUGH MARCH 9, MARCH 29 THROUGH APRIL 2, JULY 5 THROUGH JULY 9, 1979.
4. NO GROUND WATER LEVEL DATA WERE REPORTED FROM JANUARY 1 THROUGH MARCH 12, 1979.
5. PIEZOMETER OW-4s HAS BEEN REPORTED AS DRY FROM JULY 23, 1979.
6. PIEZOMETER OW-5s HAS BEEN REPORTED AS DRY ON JULY 23 AND FROM SEPTEMBER 6, 1979.
7. PIEZOMETER OW-7s HAS BEEN DRY FROM JUNE 4, 1979.

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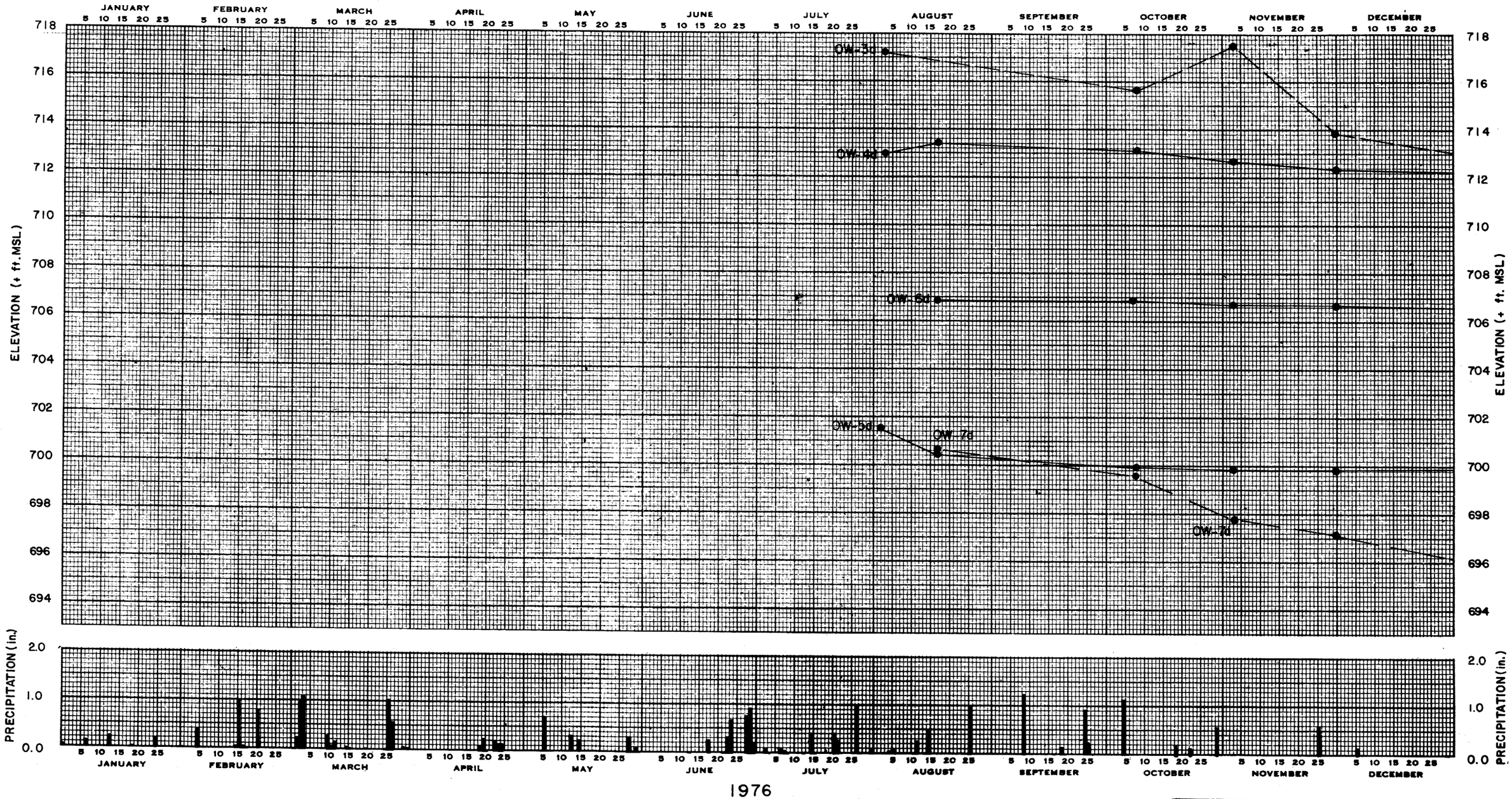
FIGURE 2.4-39

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 1

(SHEET 3 of 3)



NOTES:

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE.

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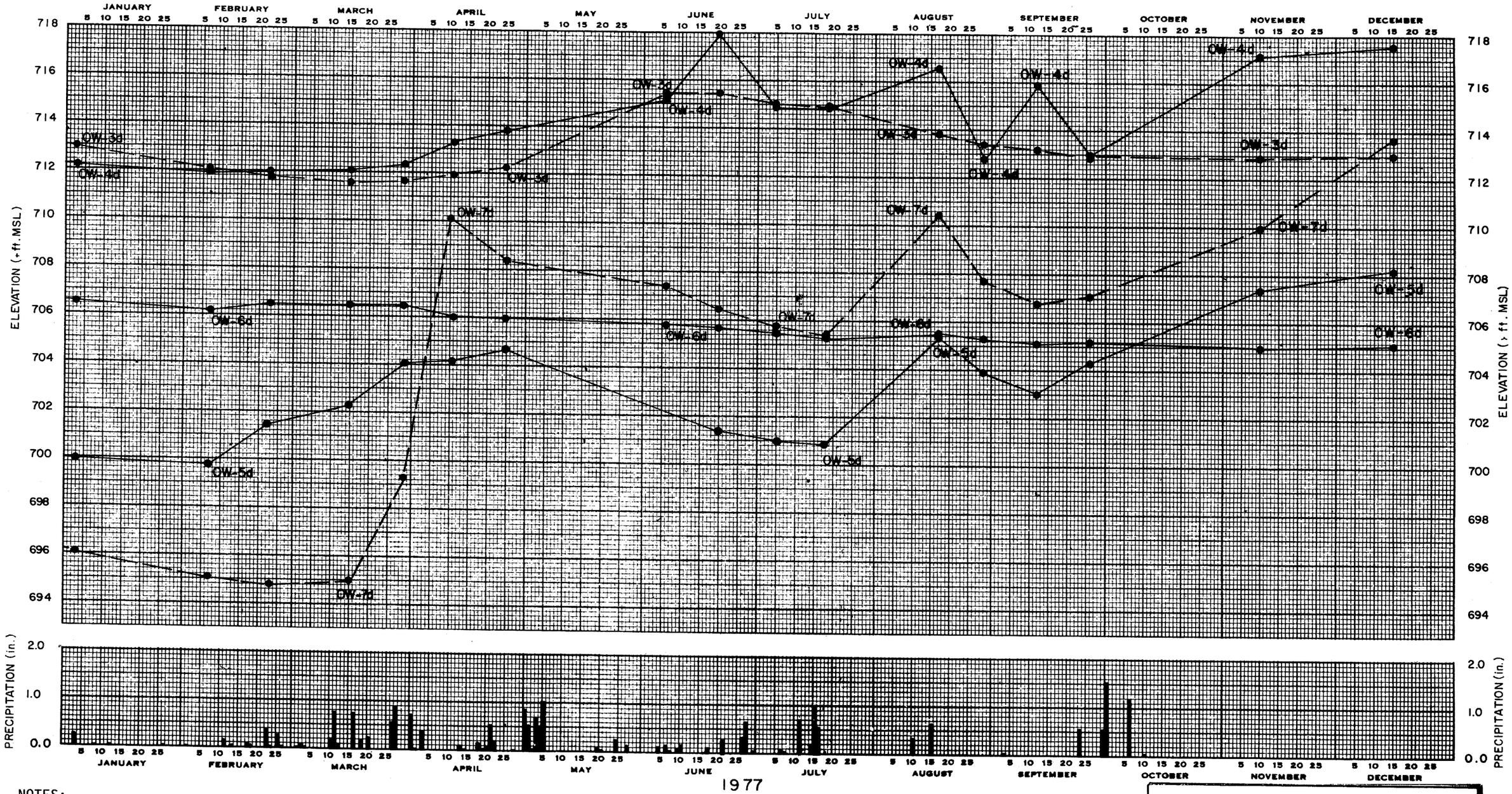
FIGURE 2.4-40

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 2

(SHEET 1 of 4)



1977

NOTES:

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. ONSITE PRECIPITATION DATA ARE NOT AVAILABLE FROM JULY 19 THROUGH AUGUST 9 OR FROM OCTOBER 19 THROUGH DECEMBER 31, 1977.

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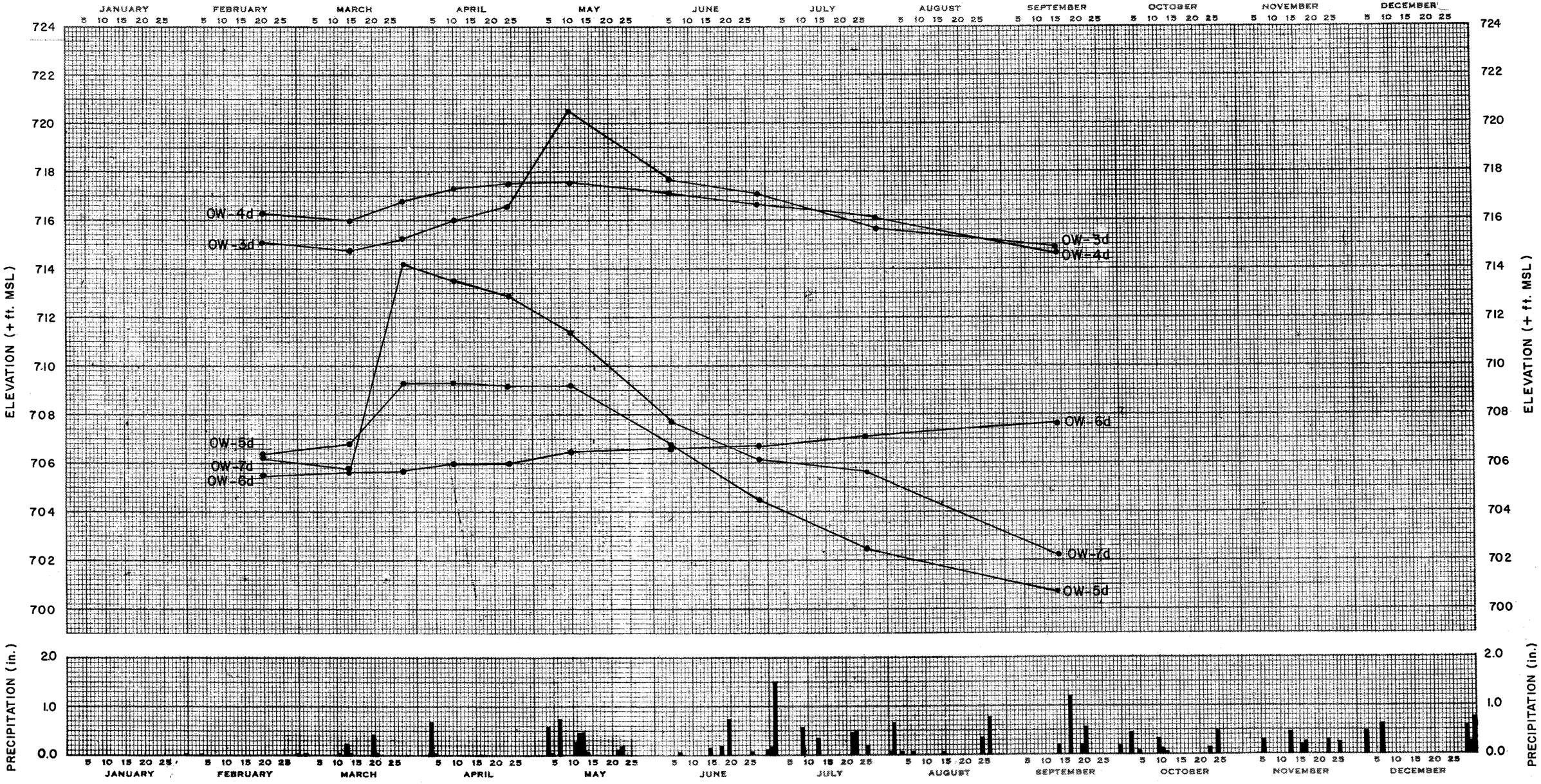
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-40

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 2

(SHEET 2 of 4)



1978

NOTES:

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JANUARY 1 TO JANUARY 27, FEBRUARY 6 TO FEBRUARY 15, MARCH 22 TO MARCH 31, APRIL 6 TO APRIL 26, AND AUGUST 17 TO AUGUST 22.
4. NO GROUND WATER LEVEL DATA WERE REPORTED FOR JANUARY OR FROM SEPTEMBER 15 THROUGH DECEMBER 31, 1978.

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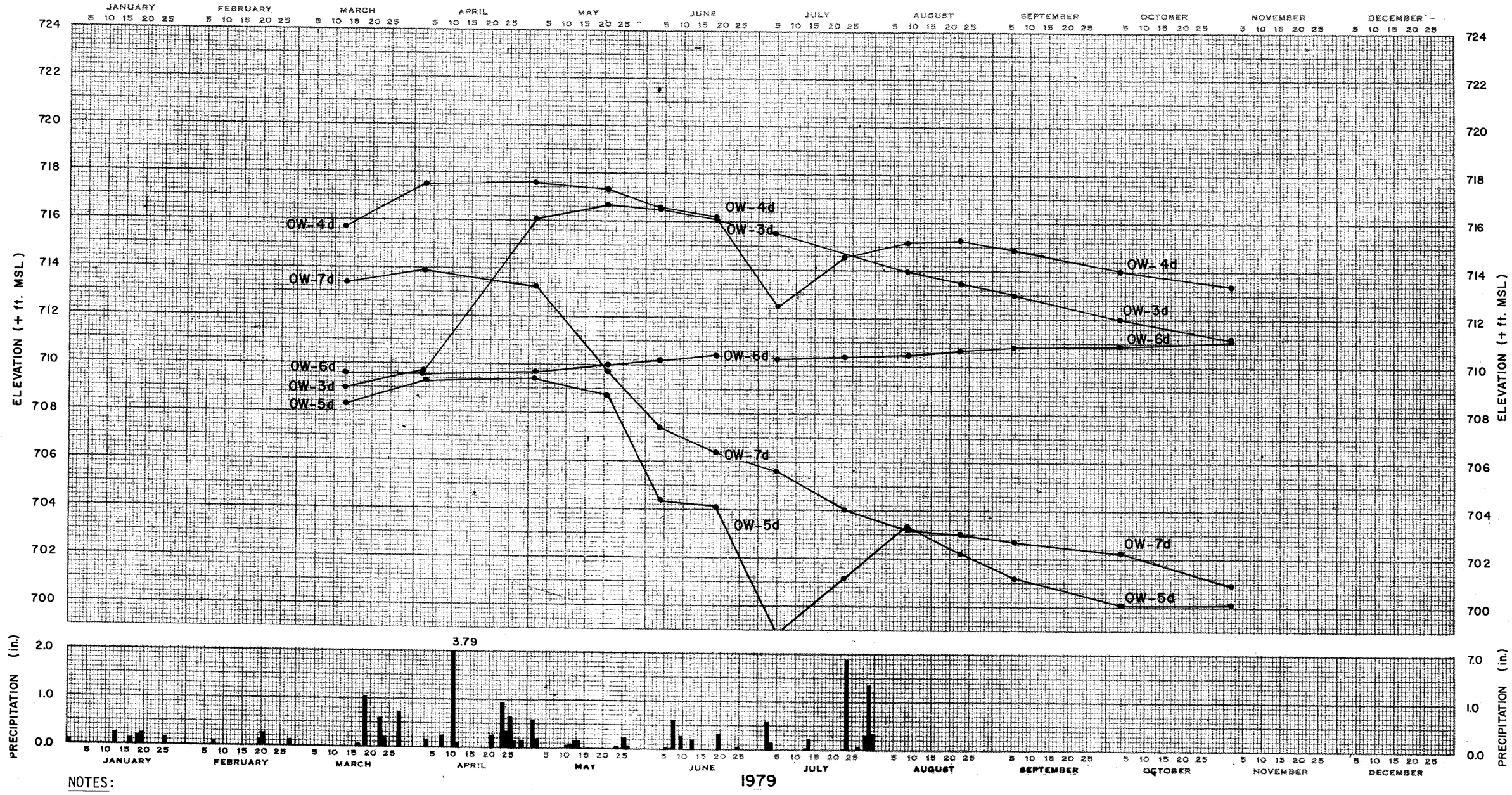
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-40

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 2

(SHEET 3 of 4)



NOTES:

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JANUARY 30 AND 31, MARCH 2 THROUGH MARCH 9, MARCH 29 THROUGH APRIL 2, JULY 5 THROUGH JULY 9, 1979.
4. NO GROUND WATER LEVEL DATA WERE REPORTED FROM JANUARY 1 THROUGH MARCH 12, 1979.
5. OFF-SCALE GROUND WATER LEVEL FOR PIEZOMETER OW5-d ON JULY 5, 1979 IS 698.7 FT.

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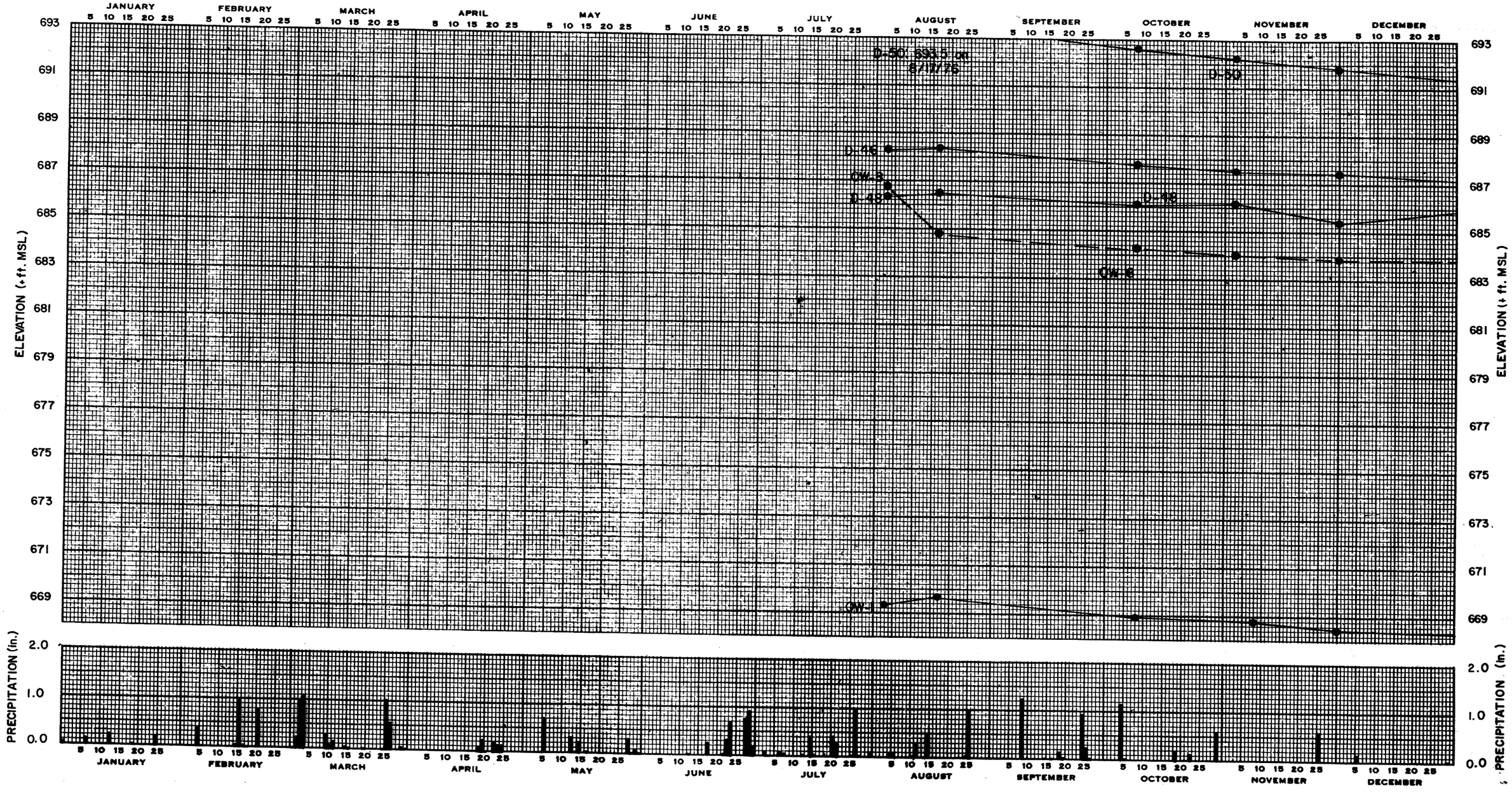
FIGURE 2.4-40

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 2

(SHEET 4 of 4)



NOTES:

1976

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE.

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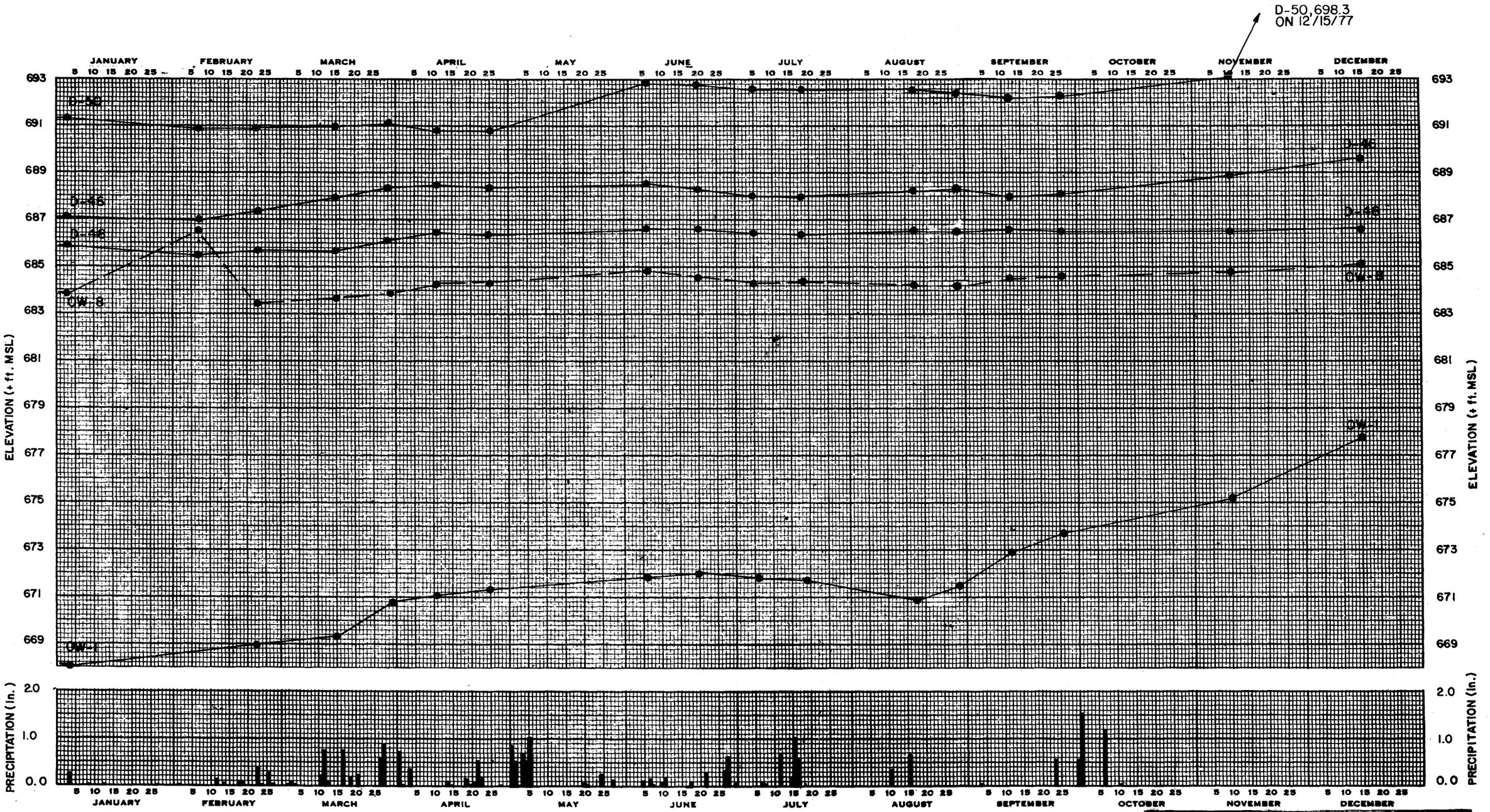
FIGURE 2.4-41

GROUNDWATER LEVELS AND DAILY PRECIPITATION - GROUP 3

(SHEET 1 of 4)



NOTES:

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. ONSITE PRECIPITATION DATA ARE NOT AVAILABLE FROM JULY 19 THROUGH AUGUST 9 OR FROM OCTOBER 19 THROUGH DECEMBER 31, 1977.

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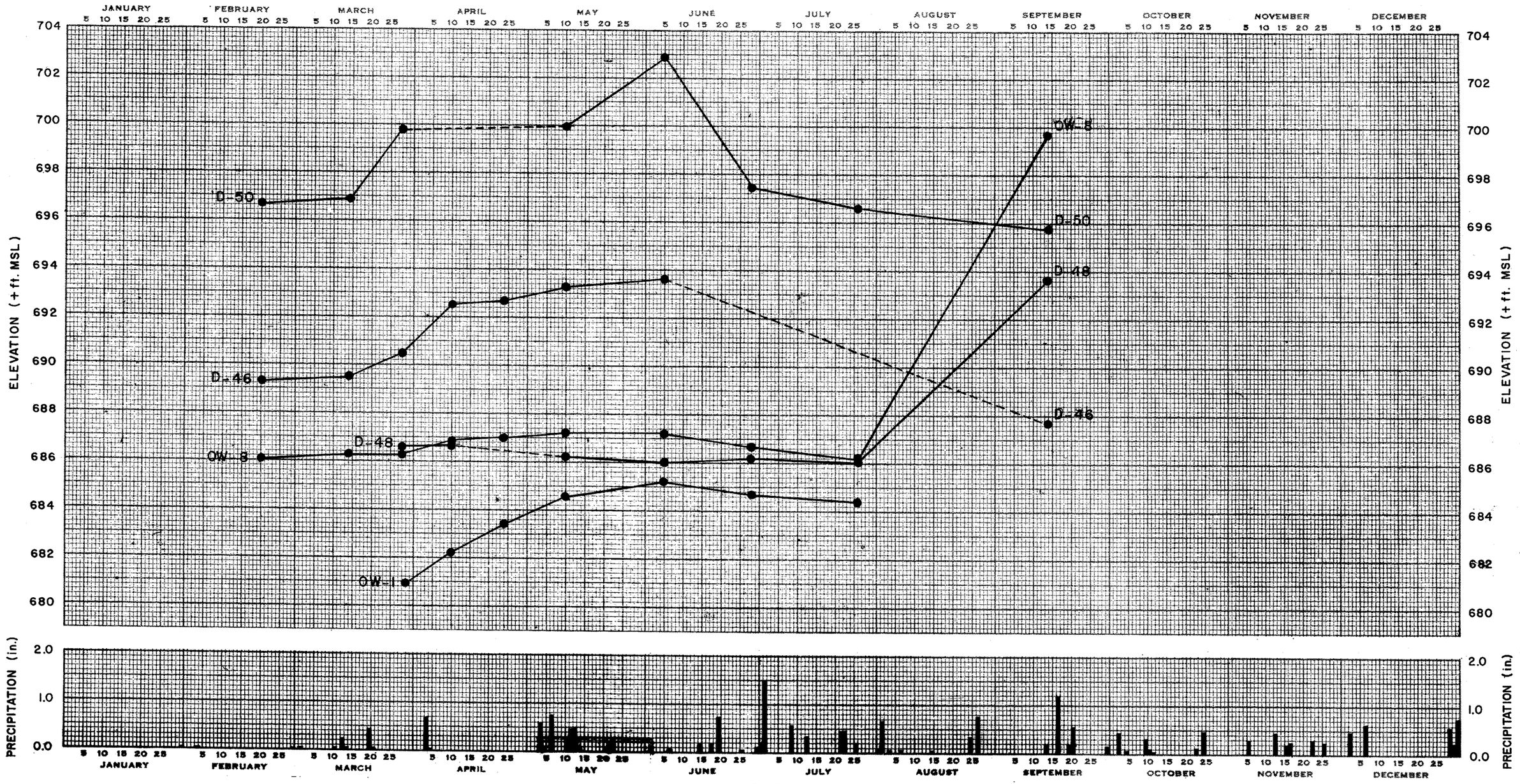
FIGURE 2.4-41

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 3

(SHEET 2 of 4)



NOTES:

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JANUARY 1 TO JANUARY 27, FEBRUARY 6 TO FEBRUARY 15, MARCH 22 TO MARCH 31, APRIL 6 TO APRIL 26, AND AUGUST 17 TO AUGUST 22.
4. NO GROUND WATER LEVEL DATA WERE REPORTED FOR JANUARY OR FROM SEPTEMBER 15 THROUGH DECEMBER 31, 1978.
5. DASHED LINES ARE USED FOR TIME PERIODS WHERE DATA WERE NOT REPORTED.
6. PIEZOMETER D-48 WAS FROZEN AND PIEZOMETER OW-1 WAS BURIED WITH SNOW ON FEBRUARY 20 AND MARCH 14, 1978.
7. PIEZOMETER OW-1 WAS REPORTED DRY OR CLOGGED ON SEPTEMBER 14, 1978.

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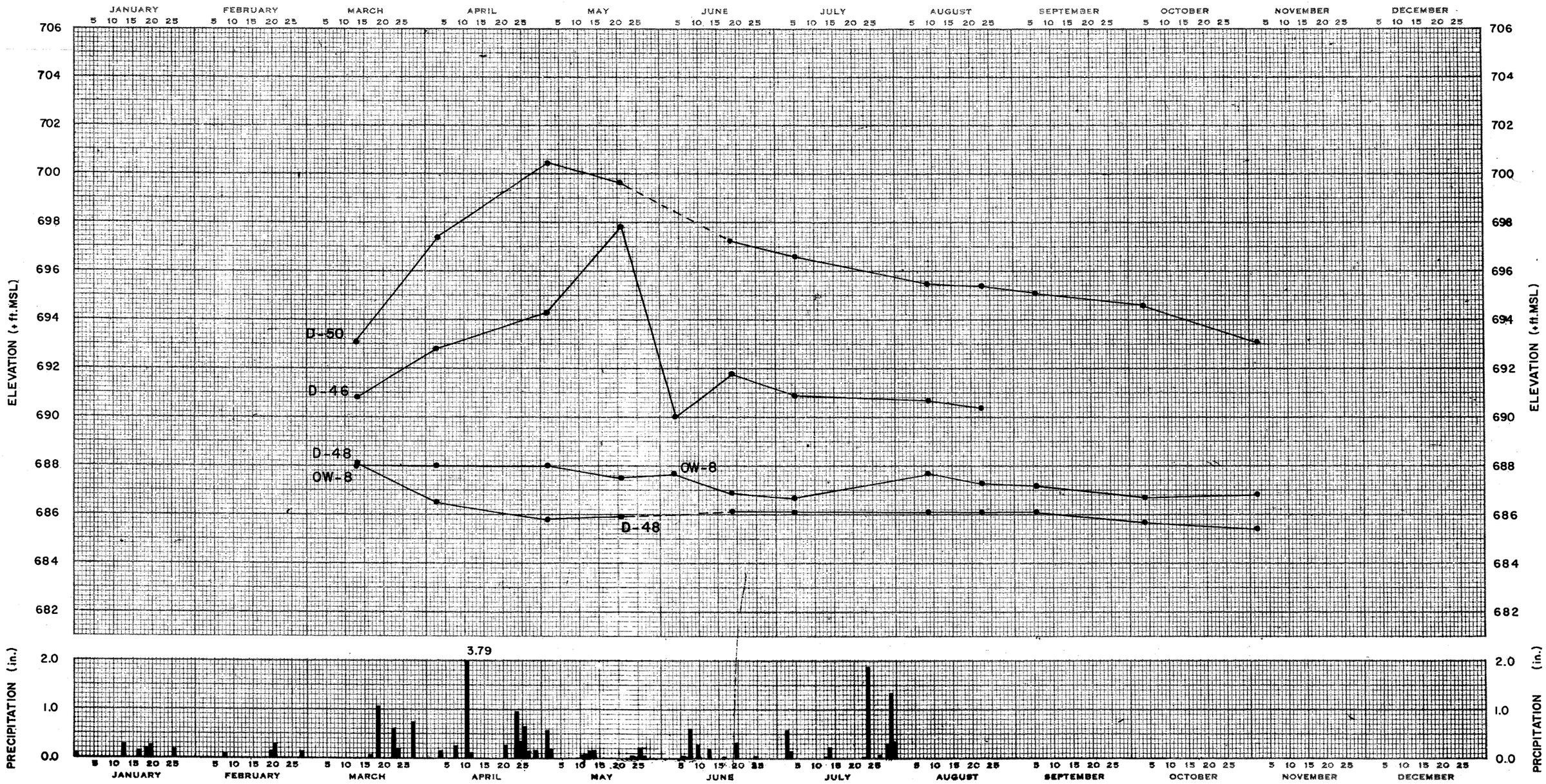
FIGURE 2.4-41

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 3

(SHEET 3 of 4)



NOTES:

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JANUARY 30 AND 31, MARCH 2 THROUGH MARCH 9, MARCH 29 THROUGH APRIL 2, JULY 5 THROUGH JULY 9, 1979.
4. NO GROUND WATER LEVEL DATA WERE REPORTED FROM JANUARY 1 THROUGH MARCH 12, 1979.
5. PIEZOMETER D-46 WAS REPORTED DESTROYED AS OF SEPTEMBER 6, 1979.
6. DASHED LINES ARE USED FOR TIME PERIODS WHERE DATA WERE NOT REPORTED.
7. PIEZOMETER OW-1 HAS BEEN REPORTED DRY OR CLOGGED IN 1979.

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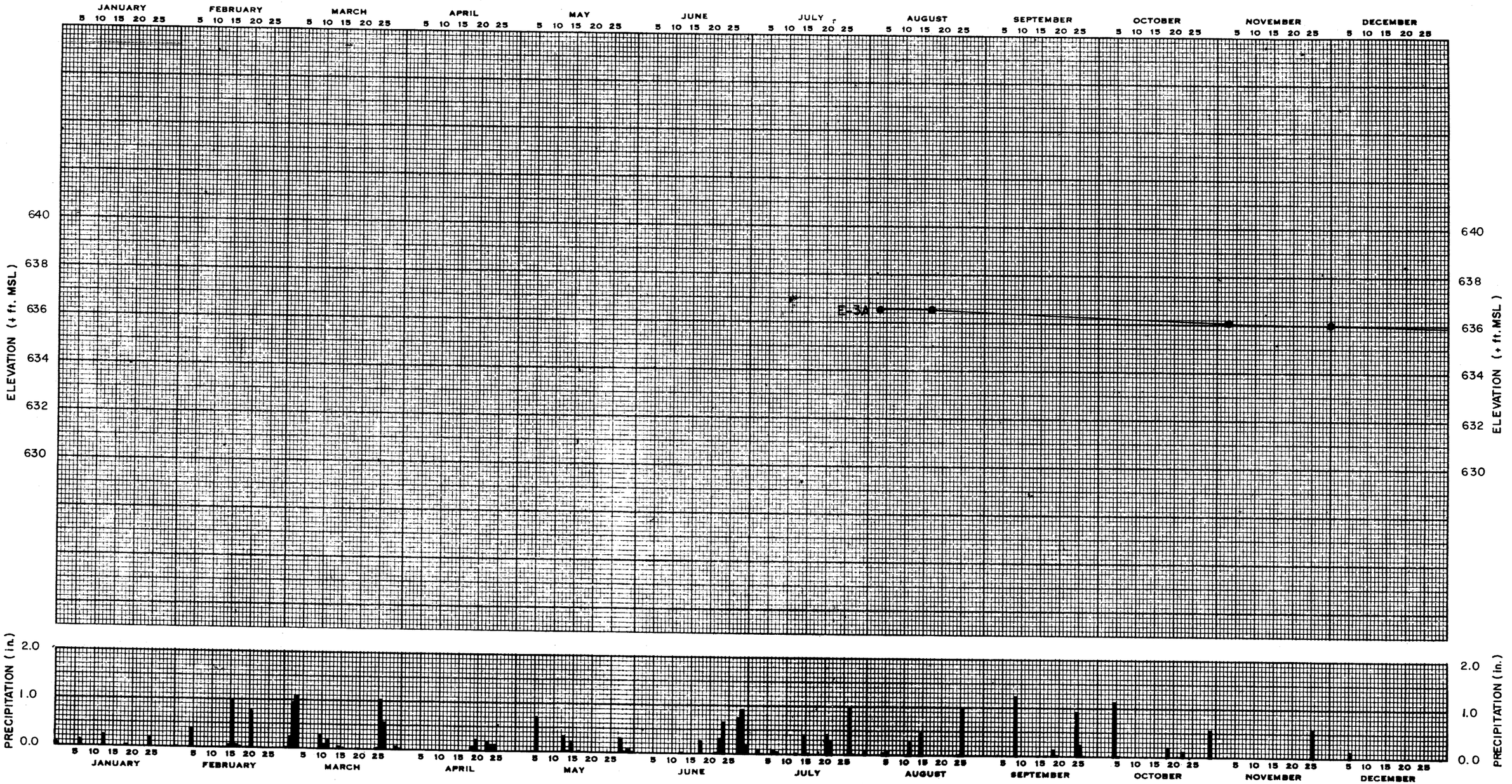
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-41

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 3

(SHEET 4 of 4)



1976

NOTES:

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE.

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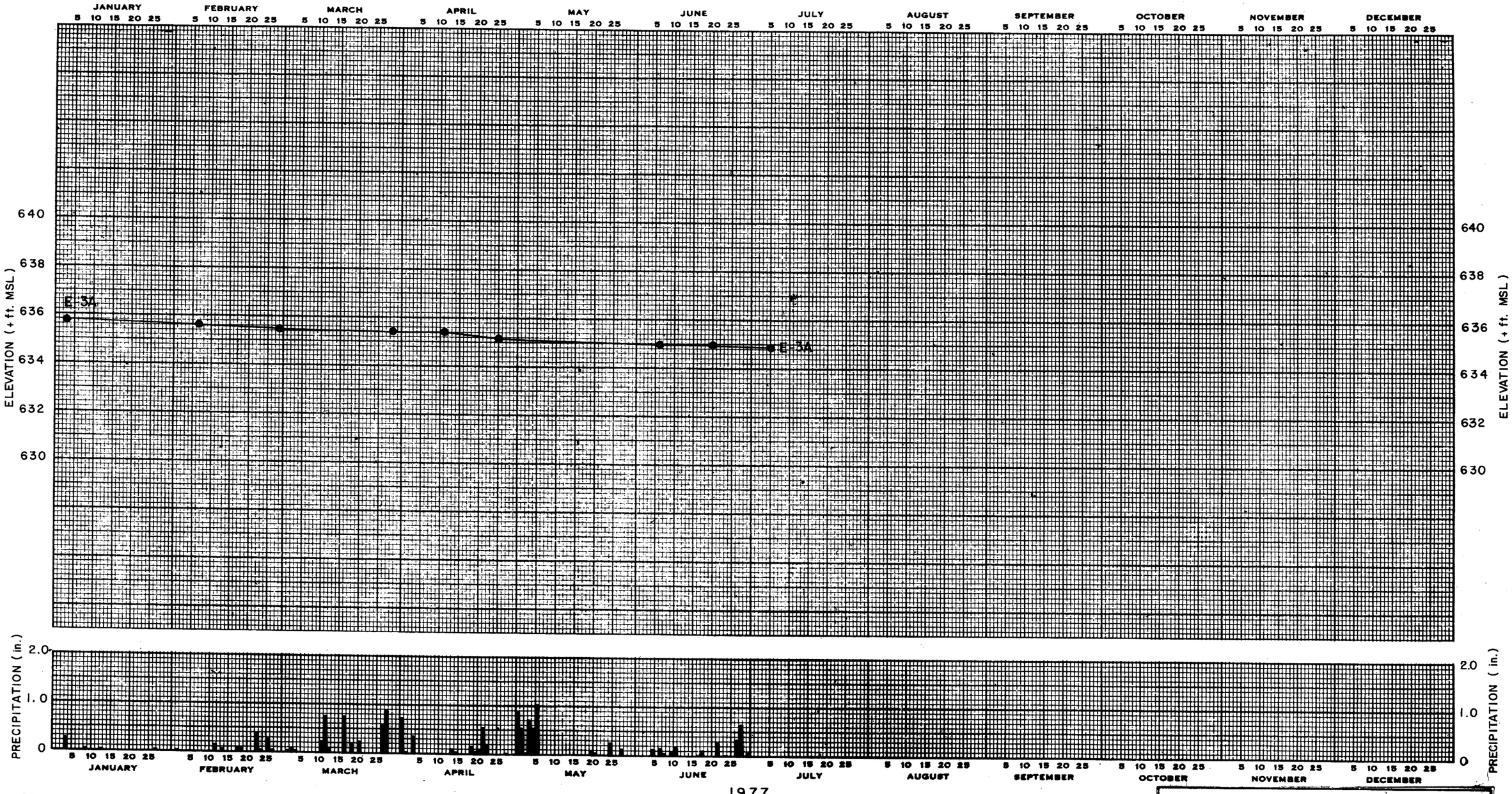
FIGURE 2.4-42

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 4

(SHEET 1 of 4)



1977

NOTES:

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE.
4. PIEZOMETER E-3A BECAME INOPERATIVE AFTER THE MEASUREMENT TAKEN JULY 5, 1977.

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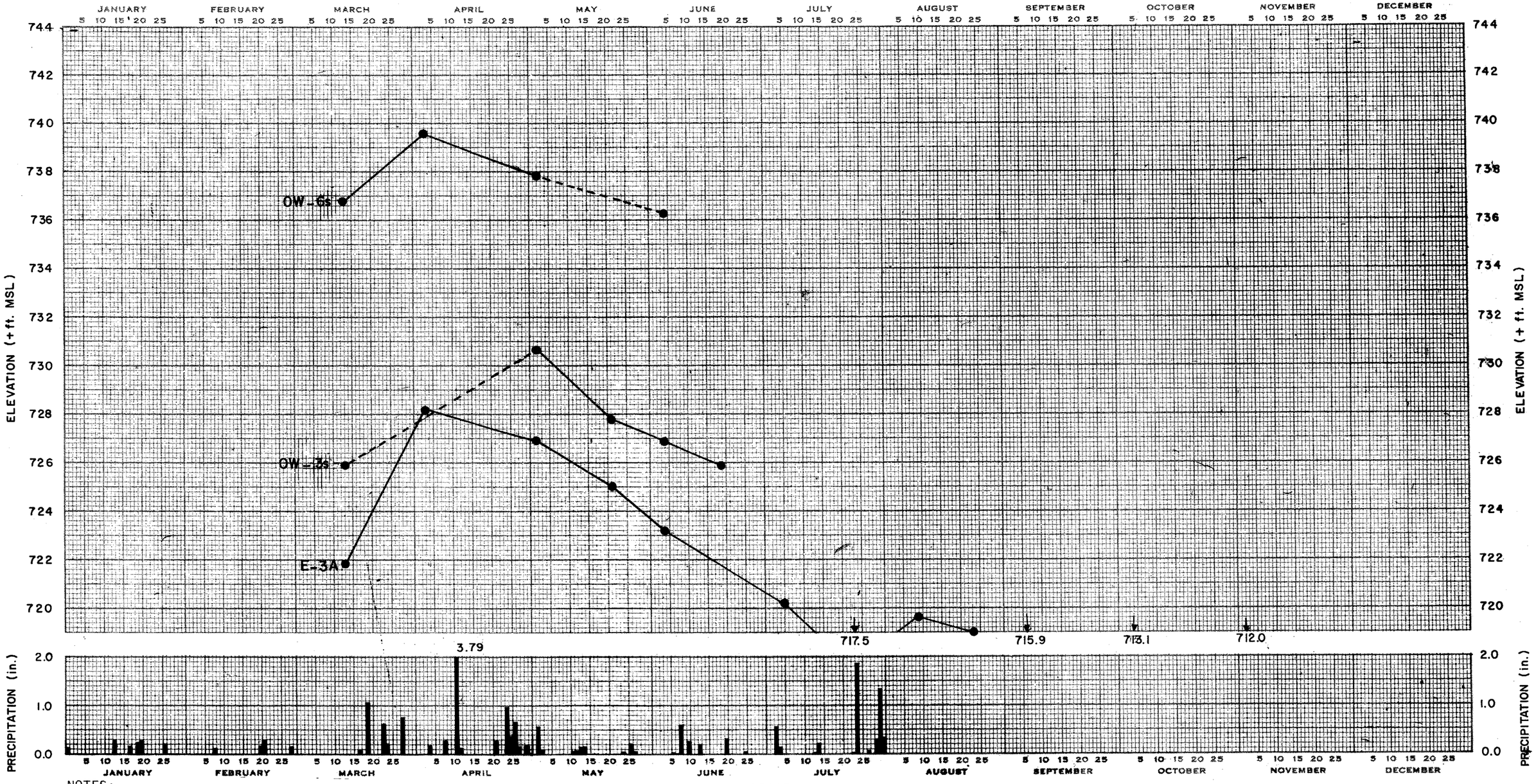
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-42

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 4

(SHEET 2 of 4)



NOTES:

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JANUARY 30 AND 31, MARCH 2 THROUGH MARCH 9, MARCH 29 THROUGH APRIL 2, JULY 5 THROUGH JULY 9, 1979.

   NO GROUND WATER LEVEL DATA WERE REPORTED FROM JANUARY 1 THROUGH MARCH 12, 1979.

1979

5. DASHED LINES ARE USED FOR TIME PERIODS WHERE DATA WERE NOT RECORDED.
6. OFF-SCALE GROUND WATER LEVELS FOR PIEZOMETER E-3A ON JULY 23, SEPTEMBER 6, AND OCTOBER 4, 1979, ARE 715.5 FT., 715.9 FT., AND 713.1 FT., RESPECTIVELY.
7. PIEZOMETERS OW-3s AND OW-6s HAVE BEEN REPORTED AS DRY FROM JULY 5, 1979.

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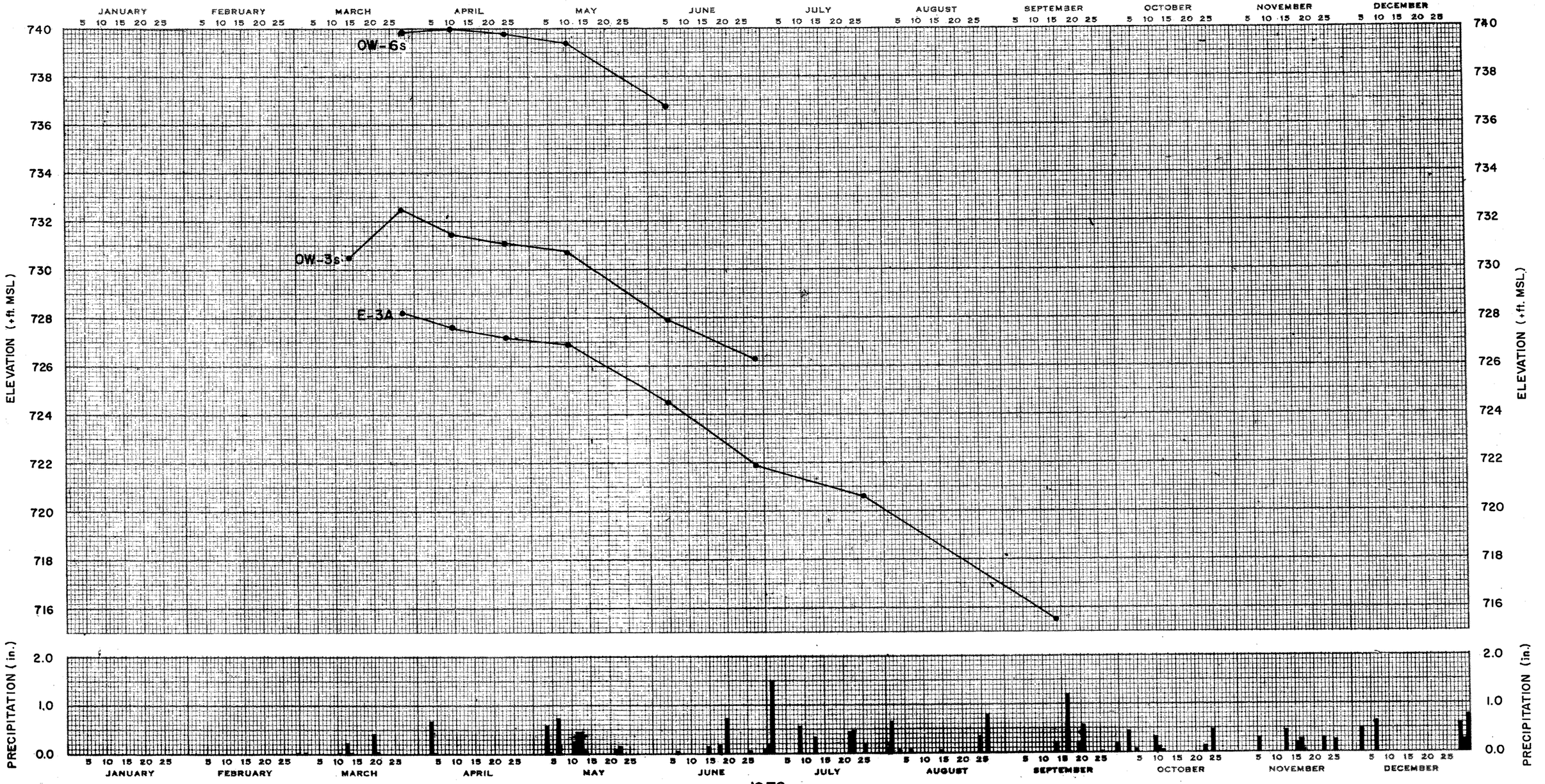
FIGURE 2.4-42

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 4

(SHEET 3 of 4)



NOTES:

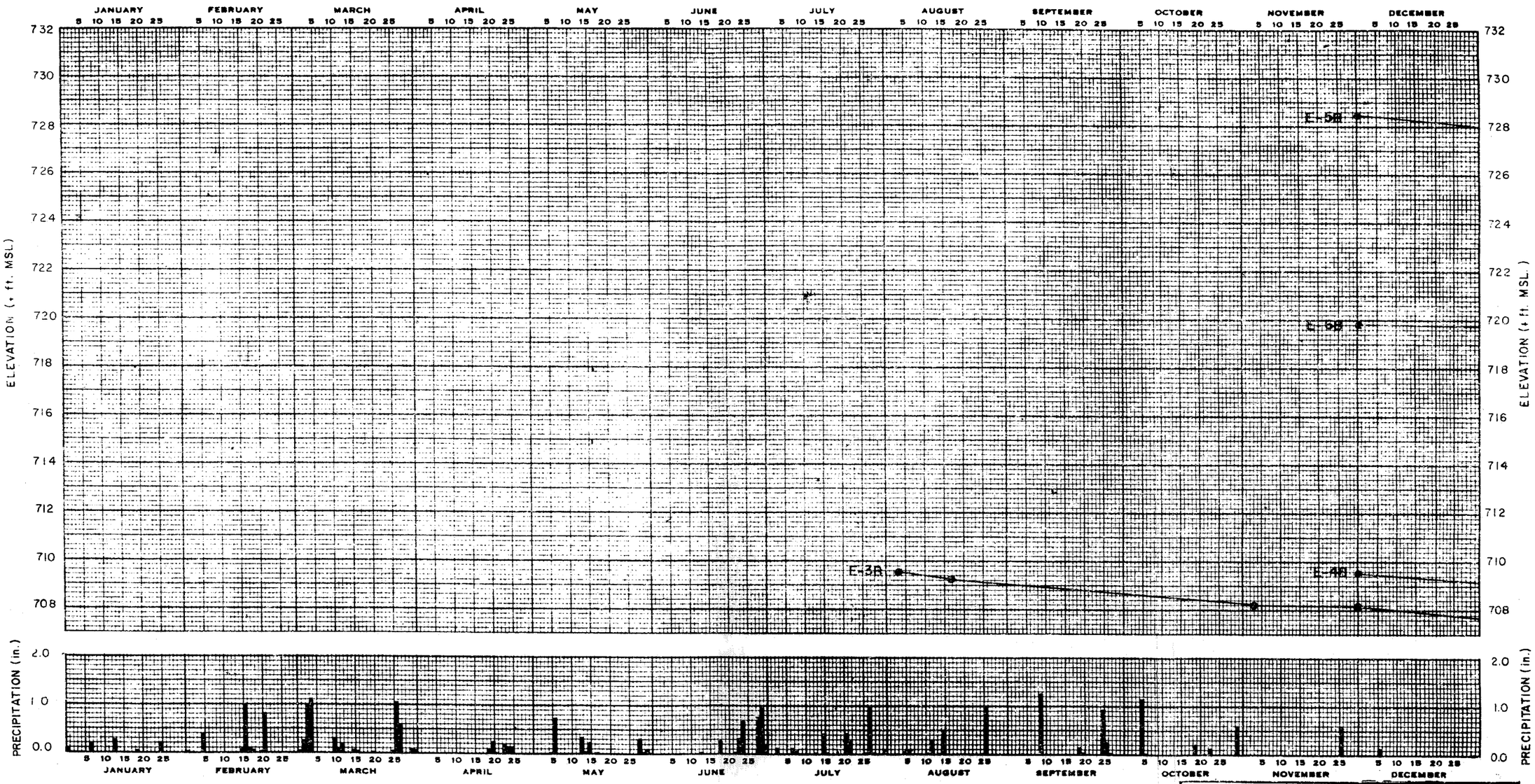
1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JANUARY 1 TO JANUARY 27, FEBRUARY 6 TO FEBRUARY 15, MARCH 22 TO MARCH 31, APRIL 6 TO APRIL 26, AND AUGUST 17 TO AUGUST 22.
4. NO GROUND WATER LEVEL DATA WERE REPORTED FOR JANUARY OR FROM SEPTEMBER 15 THROUGH DECEMBER 31, 1978.
5. PIEZOMETER OW-3s WAS REPORTED DRY FEBRUARY 20 AND FROM JULY 26 THROUGH SEPTEMBER 14, 1978.
6. PIEZOMETER OW-6s WAS REPORTED DRY FEBRUARY 20, MARCH 14, AND FROM JUNE 28 THROUGH SEPTEMBER 14, 1978.
7. PIEZOMETER E-3A IS MALFUNCTIONING.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-42

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 4

(SHEET 4 of 4)



NOTES:

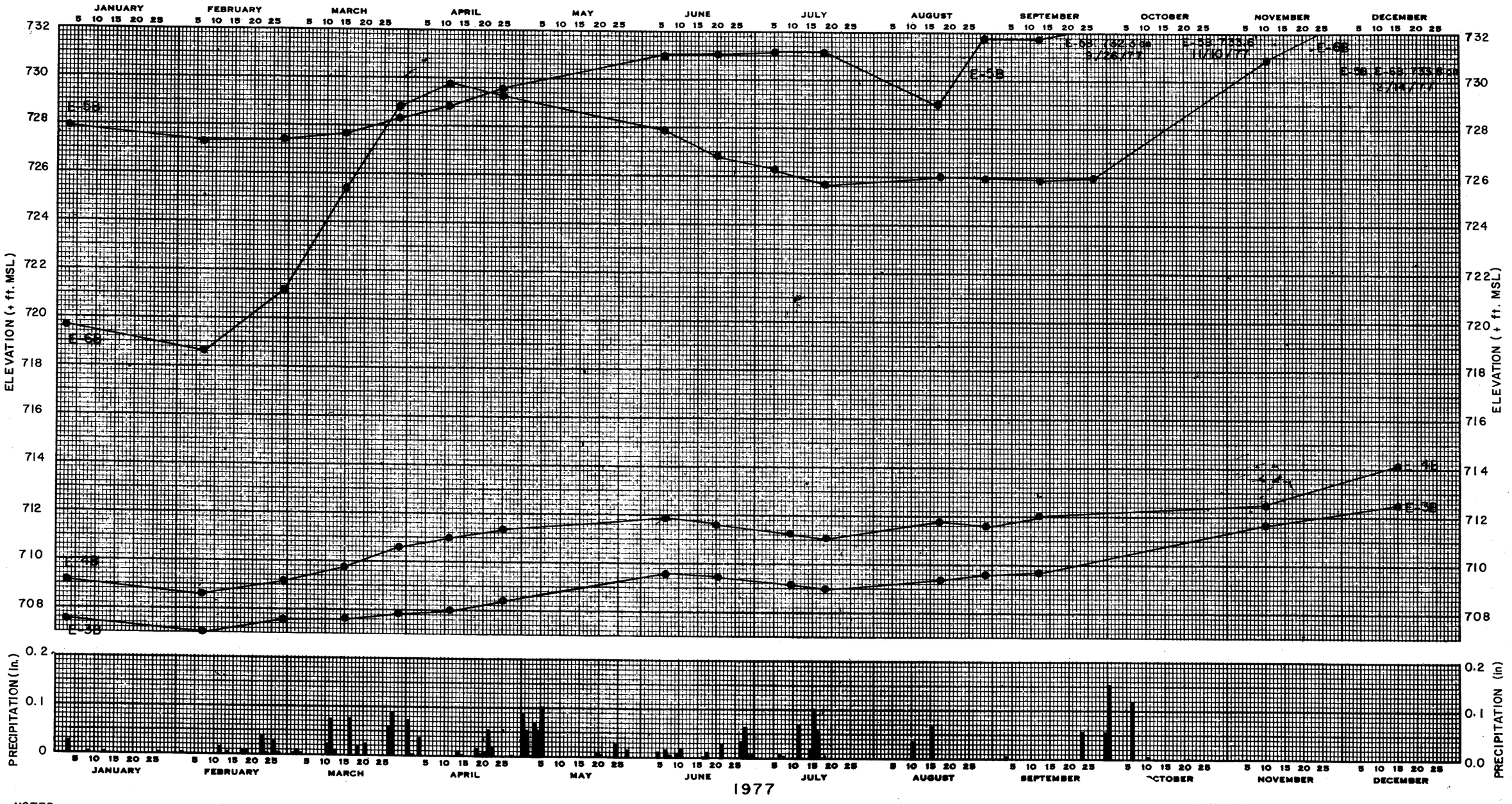
1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-43

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 5

(SHEET 1 of 4)



NOTES:

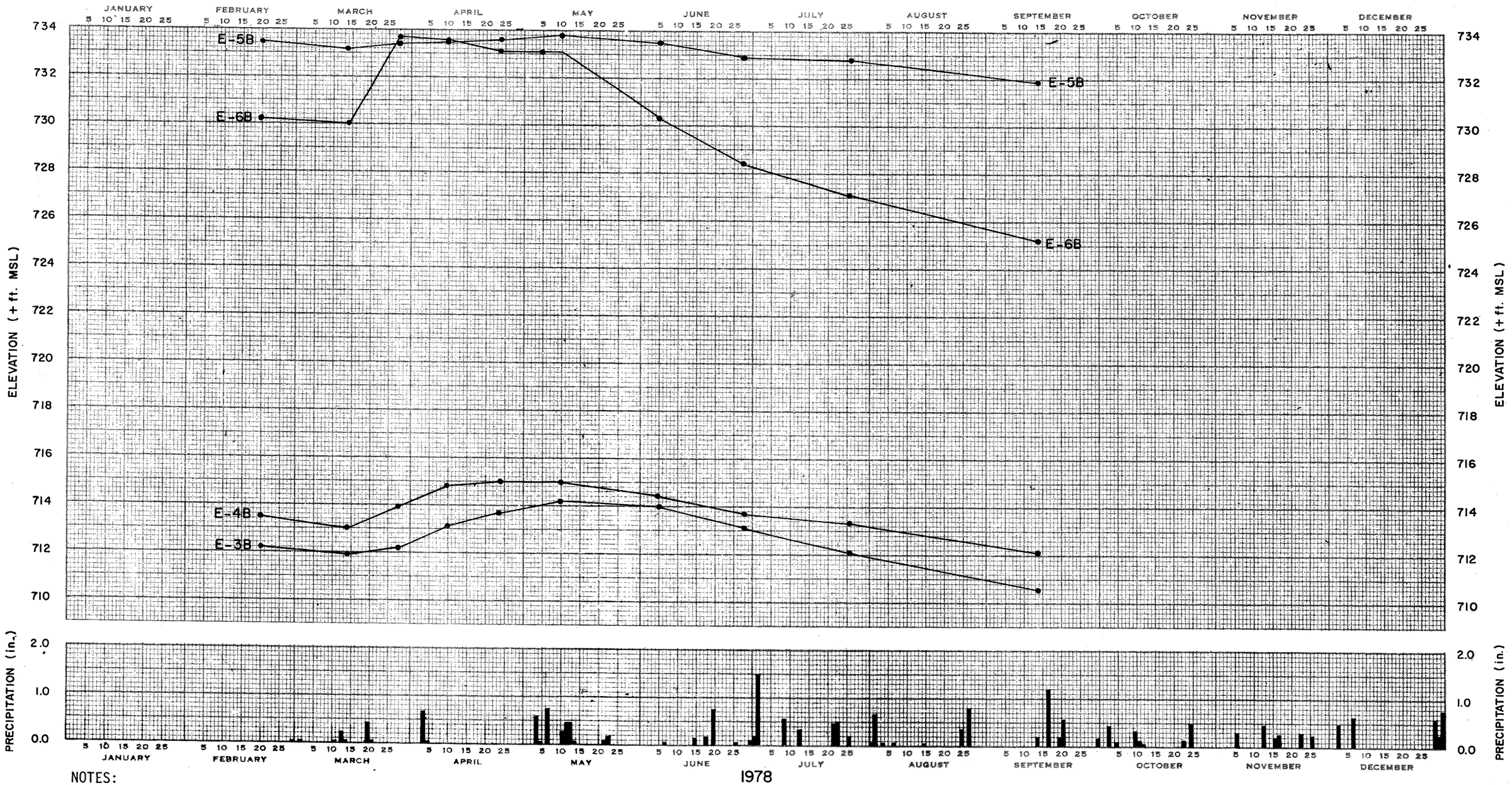
1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. ONSITE PRECIPITATION DATA ARE NOT AVAILABLE FROM JULY 19 THROUGH AUGUST 9 OR FROM OCTOBER 19 THROUGH DECEMBER 31, 1977..

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-43

GROUNDWATER LEVELS AND DAILY PRECIPITATION - GROUP 5

(SHEET 2 of 4)



NOTES:

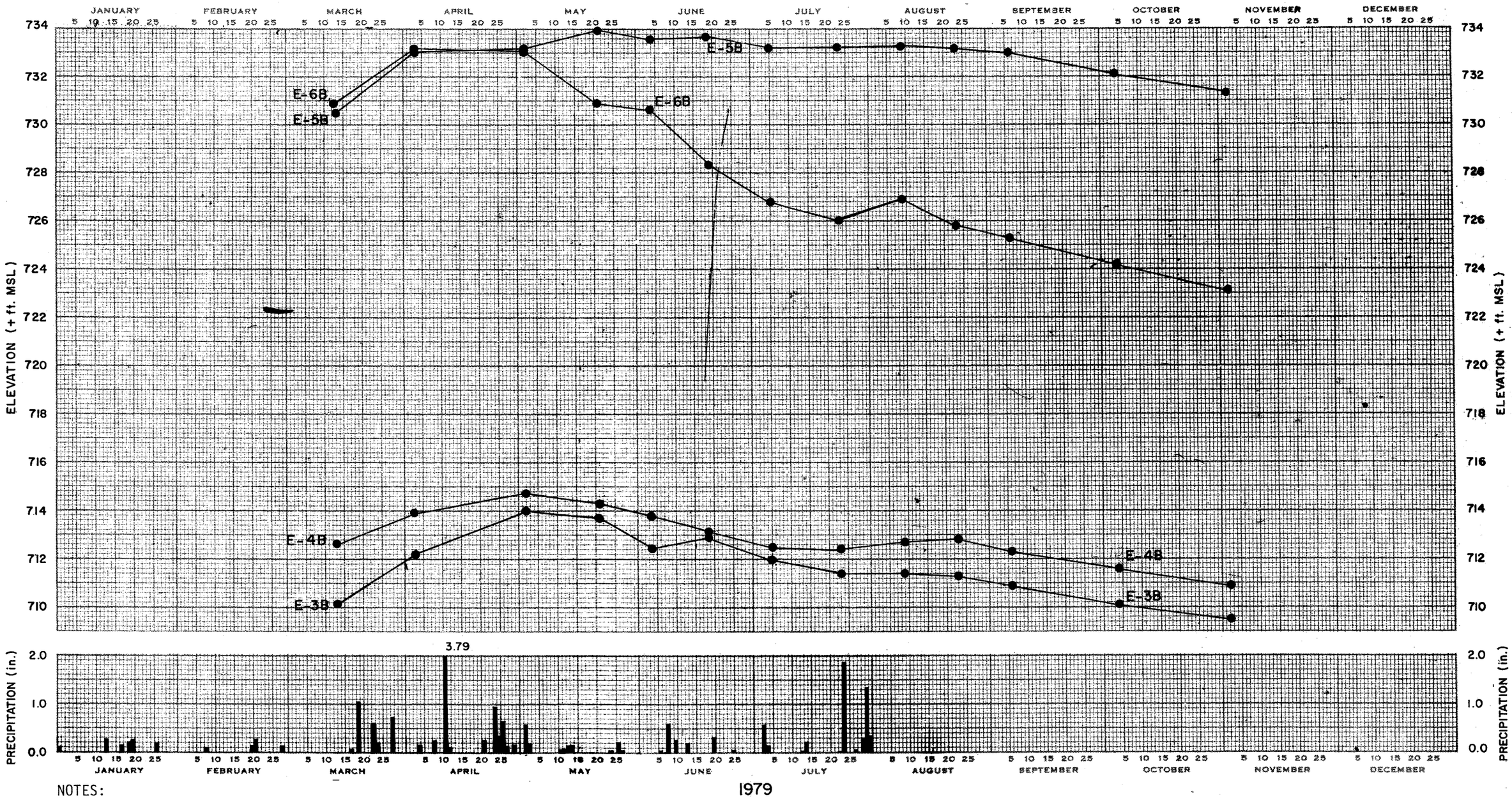
1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JANUARY 1 TO JANUARY 27, FEBRUARY 6 TO FEBRUARY 15, MARCH 22 TO MARCH 31, APRIL 6 TO APRIL 26, AND AUGUST 17 TO AUGUST 22.
4. NO GROUND WATER LEVEL DATA WERE REPORTED FOR JANUARY OR FROM SEPTEMBER 15 THROUGH DECEMBER 31, 1978.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-43

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 5

(SHEET 3 of 4)



NOTES:

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURE 2.4-32.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JANUARY 30 AND 31, MARCH 2 THROUGH MARCH 9, MARCH 29 THROUGH APRIL 2, JULY 5 THROUGH JULY 9, 1979.
4. NO GROUND WATER LEVEL DATA WERE REPORTED FROM JANUARY 1 THROUGH MARCH 12, 1979.

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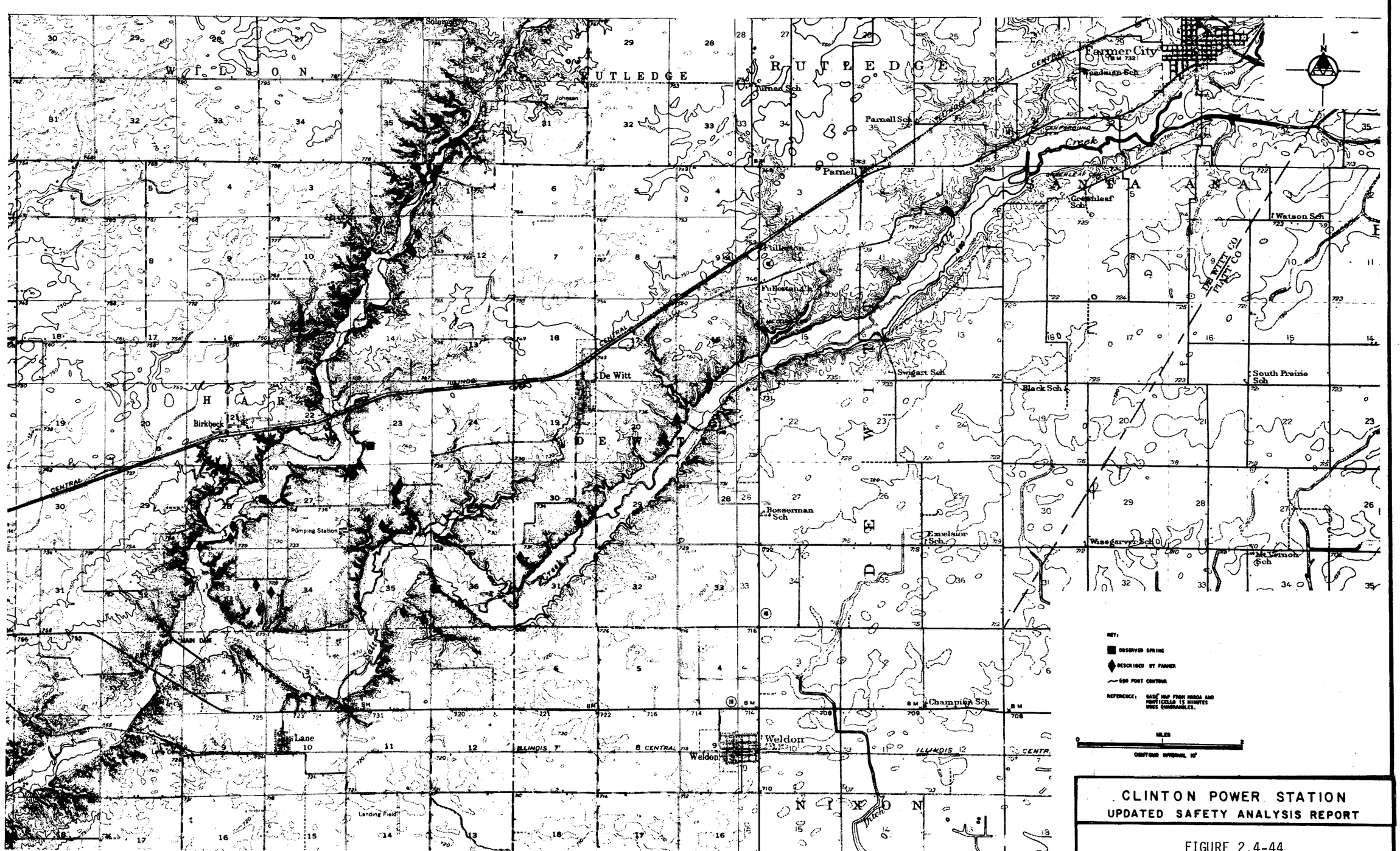
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-43

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 5

(SHEET 4 of 4)



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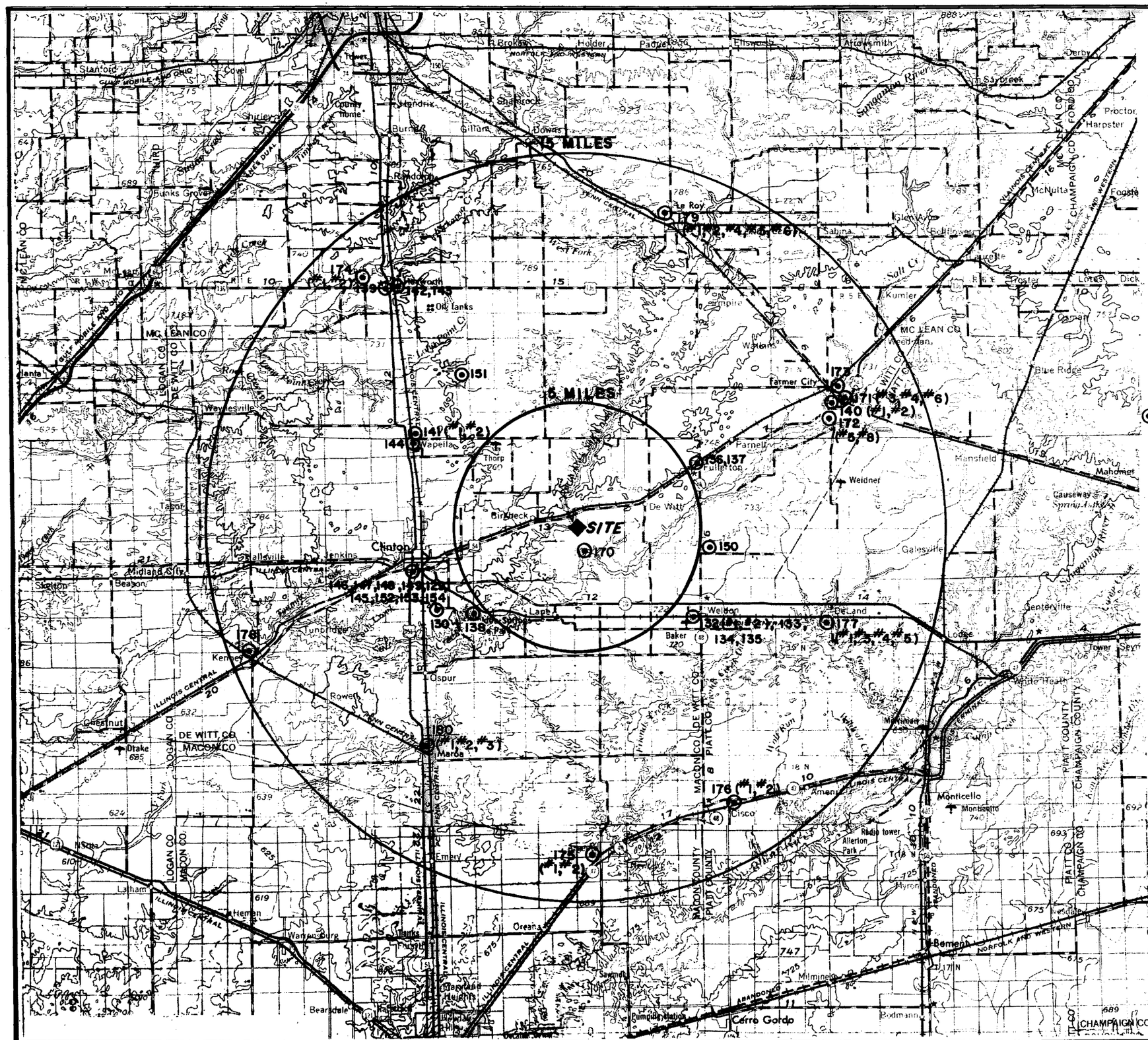
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-44

SPRINGS IN THE VICINITY OF THE SITE



LEGEND

⊙ 151 NON-PRIVATE WATER WELL LOCATION NUMBER REFERS TO TABULATION IN TABLE 2.4-33.

NOTES:

1. THE SURVEY OF NON-PRIVATE WATER WELLS WAS INITIALLY CONDUCTED BY DAMES & MOORE FOR THE PSAR. THE SURVEY WAS SUPPLEMENTED BY SARGENT & LUNDY FOR THE FSAR.

2. BASE MAP MODIFIED FROM USGS, 1:250,000 SERIES TOPOGRAPHIC MAPS: PEORIA, ILLINOIS, 1958, AND DECATUR, ILLINOIS, 1958.

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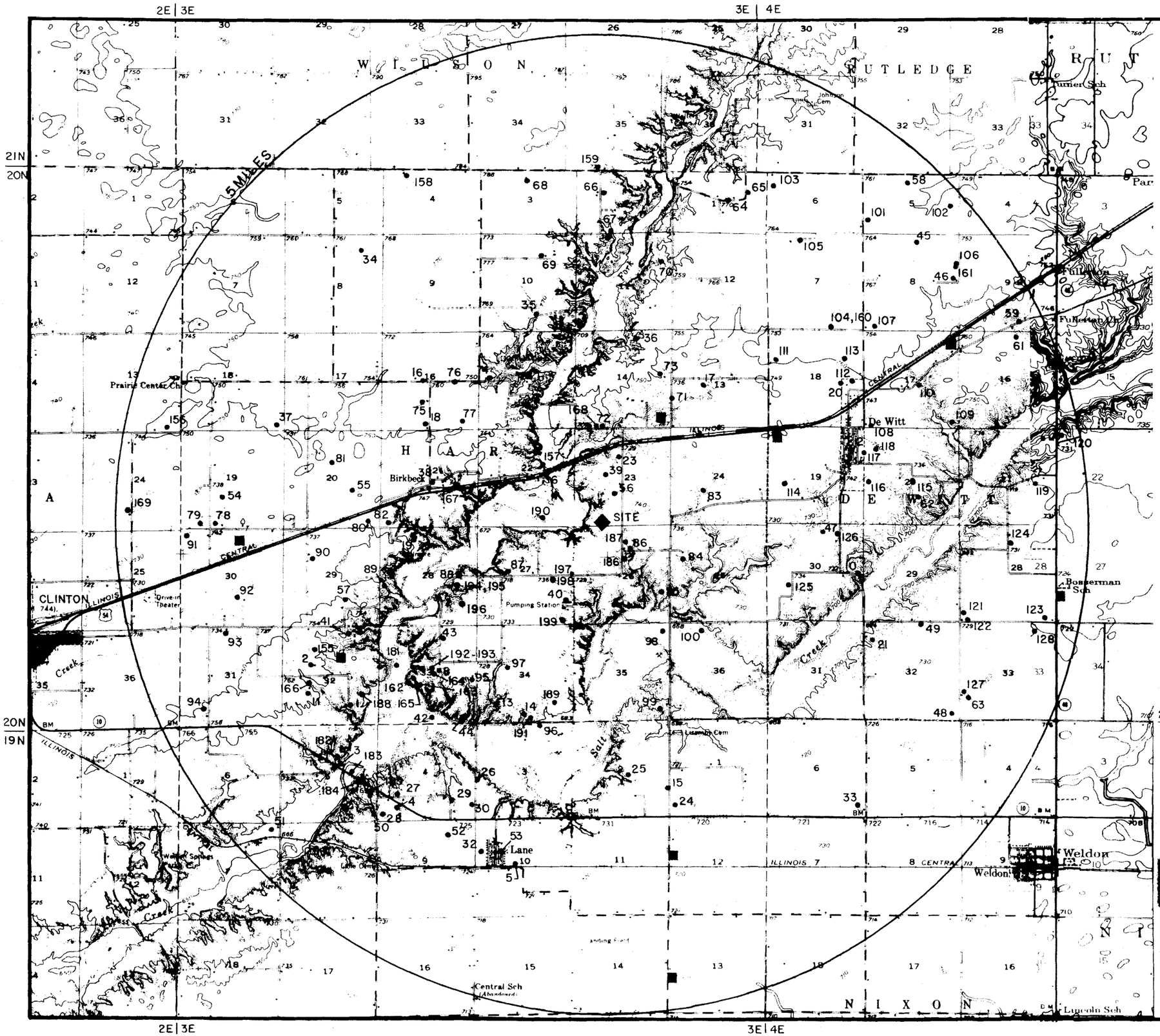
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-45

NON-PRIVATE WATER WELLS WITHIN 15 MILES OF SITE



LEGEND

●63 WATER WELL LOCATION NUMBER REFERS TO TABULATION IN TABLE 2.4-35

■ PRIVATE WATER WELL (LOCATION KNOWN, DATA NOT AVAILABLE)

NOTES

1. THE SURVEY OF WATER WELLS WAS CONDUCTED BY DAMES & MOORE FOR THE PSAR AND REVISED BY SARGENT & LUNDY FOR THE FSAR

2. BASE MAP MODIFIED FROM USGS, 15' SERIES TOPOGRAPHIC MAPS: MAROA, ILLINOIS, 1957, AND MONTICELLO, ILLINOIS, 1937

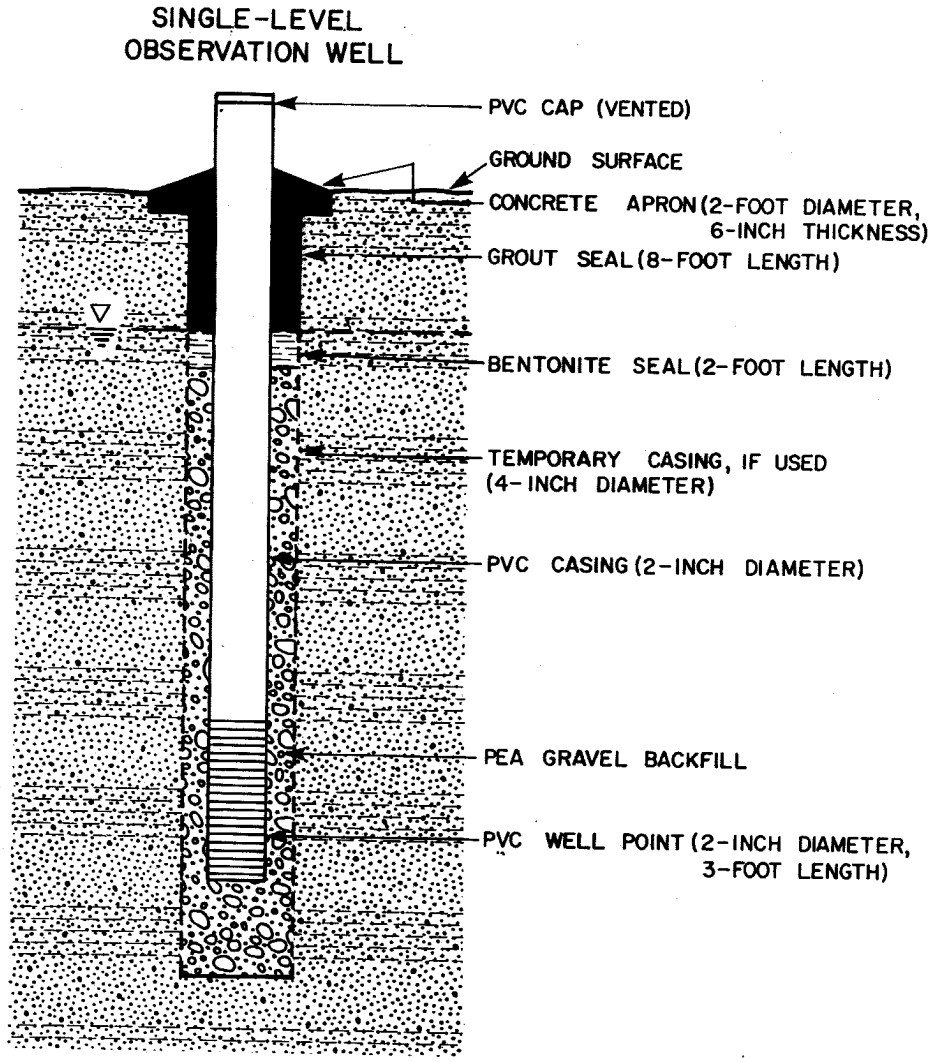
1 0 1 2

SCALE IN MILES

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-46

WATER WELLS WITHIN 5 MILES OF SITE



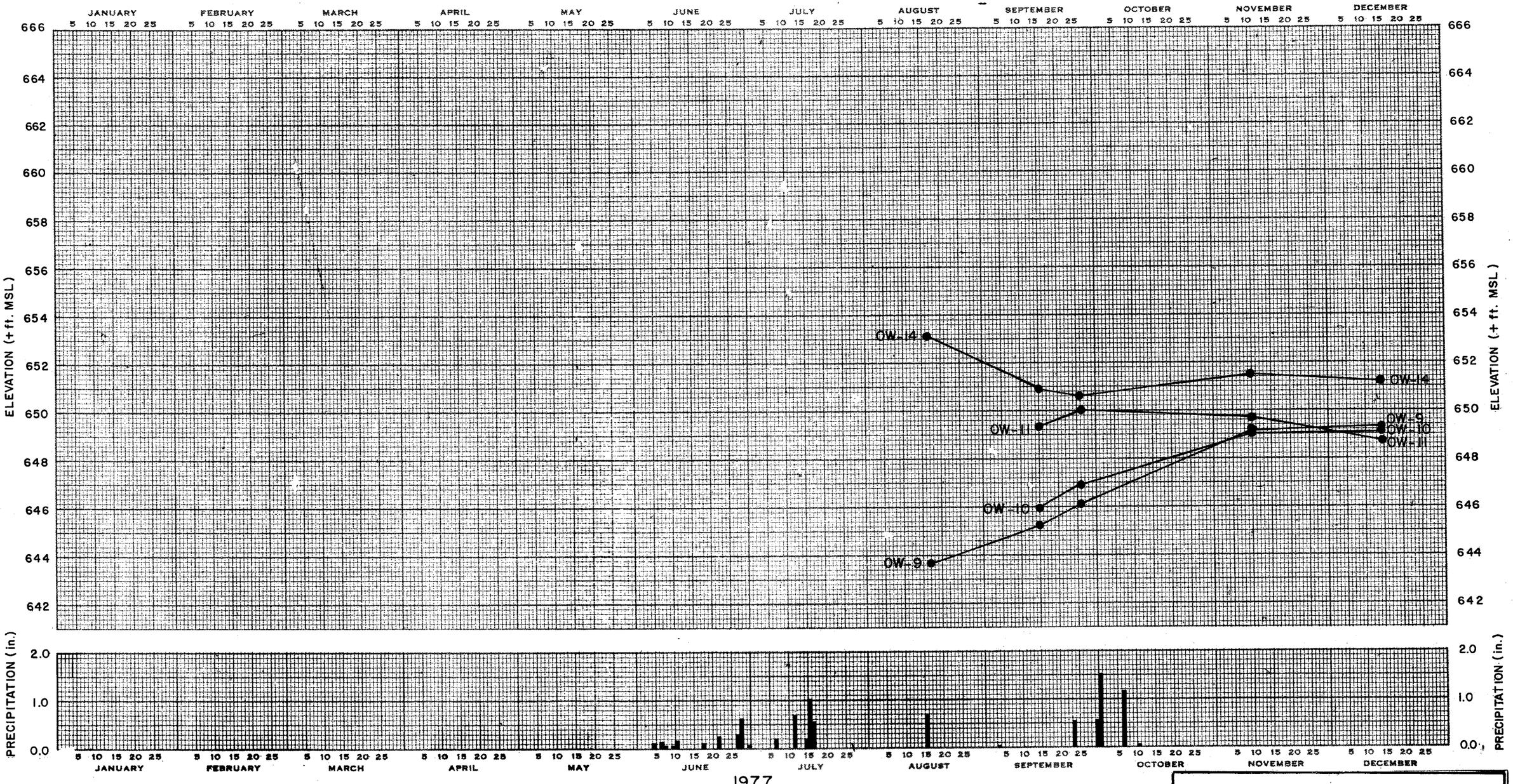
NOTES:

1. NOT DRAWN TO SCALE.
2. LOCATIONS OF OW-SERIES PIEZOMETERS SHOWN ON FIGURE 2.4-32 AND 2.5-272.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-47

TYPICAL INSTALLATION DETAILS FOR OW-SERIES PIEZOMETERS



NOTES:

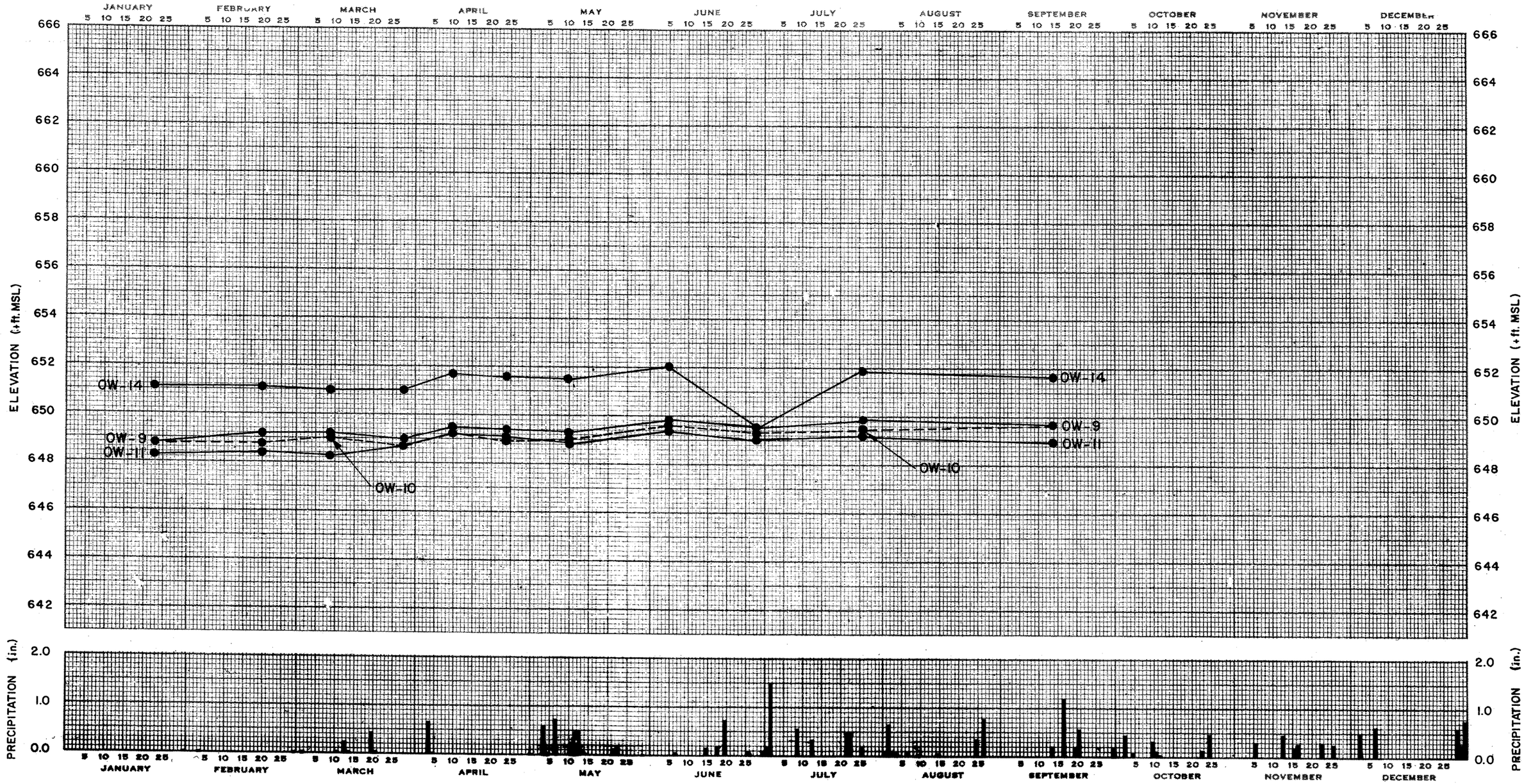
1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURES 2.4-32 AND 2.5-272.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JULY 18 TO AUGUST 10, AND OCTOBER 16 TO DECEMBER 31, 1977.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-48

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 6

(SHEET 1 of 3)



NOTES:

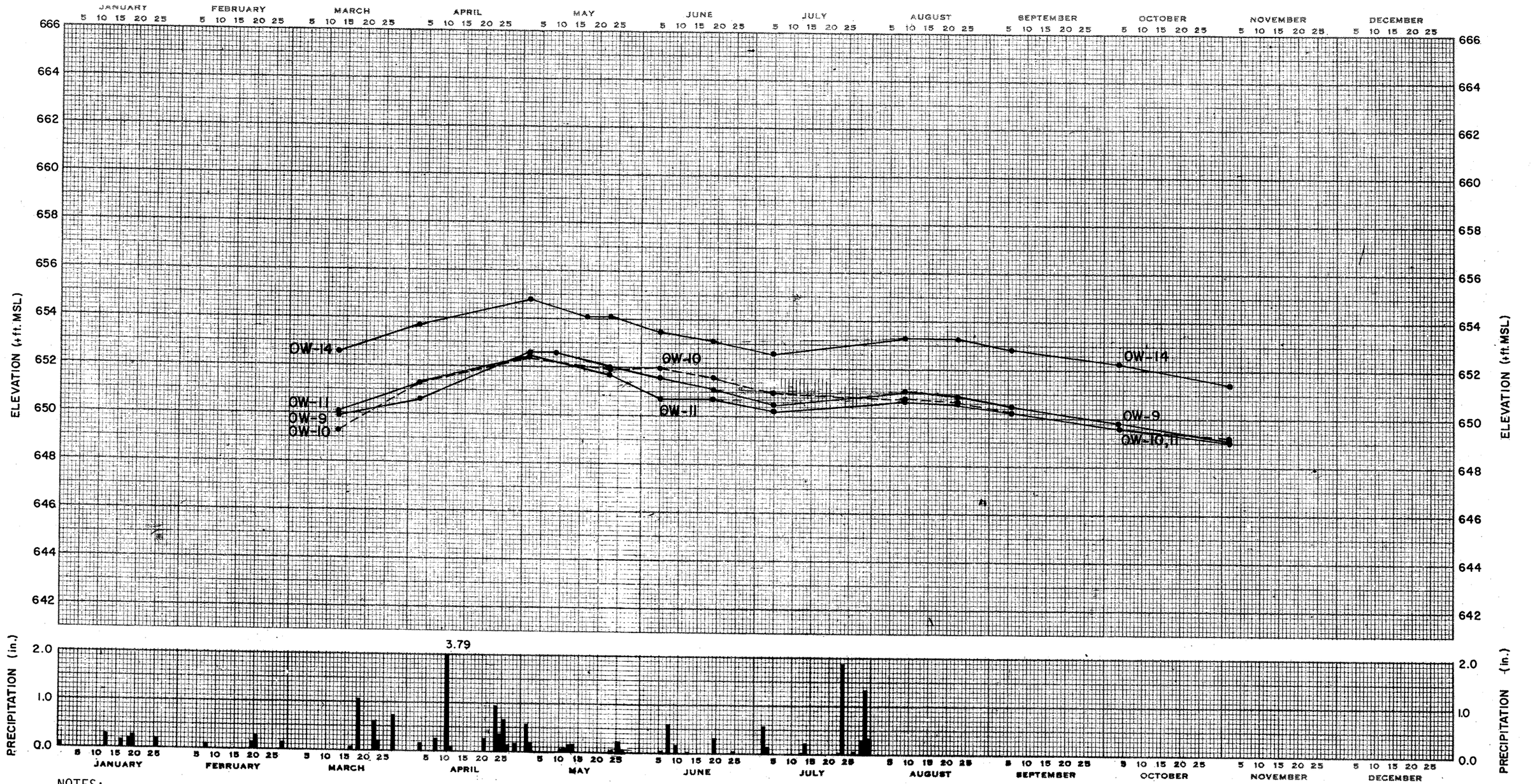
1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURES 2.4-32 AND 2.5-272.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JANUARY 1 TO JANUARY 27, FEBRUARY 6 TO FEBRUARY 15, MARCH 22 TO MARCH 31, APRIL 6 TO APRIL 26, AND AUGUST 17 TO AUGUST 22.
4. NO GROUND WATER LEVEL DATA WERE RECORDED FROM SEPTEMBER 14 THROUGH DECEMBER 31, 1978.
5. DASHED LINE SHOWS GROUND WATER LEVEL FOR PIEZOMETER OW-10.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-48

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 6

(SHEET 2 of 3)



NOTES:

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURES 2.4-32 AND 2.5-272.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JANUARY 30 AND 31, MARCH 2 THROUGH MARCH 9, MARCH 29 THROUGH APRIL 2, JULY 5 THROUGH JULY 9, 1979.
4. THE OPERATION OF PIEZOMETERS OW-18, OW-19, AND OW-20 WAS BEGUN ON AUGUST 9, 1979.
5. DASHED LINE SHOWS GROUND WATER LEVEL FOR PIEZOMETER OW-10.

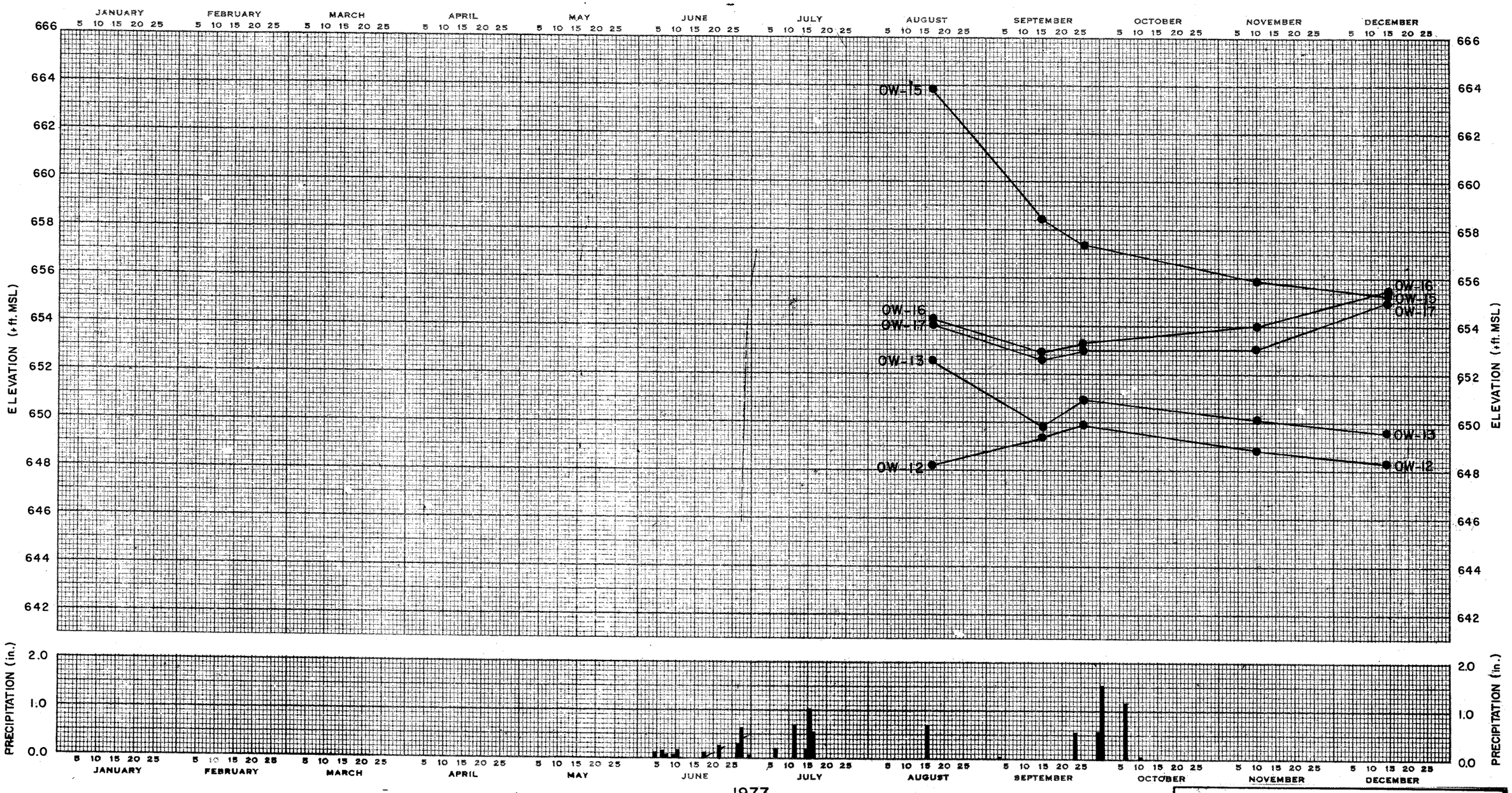
1979

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-48

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 6

(SHEET 3 of 3)



NOTES:

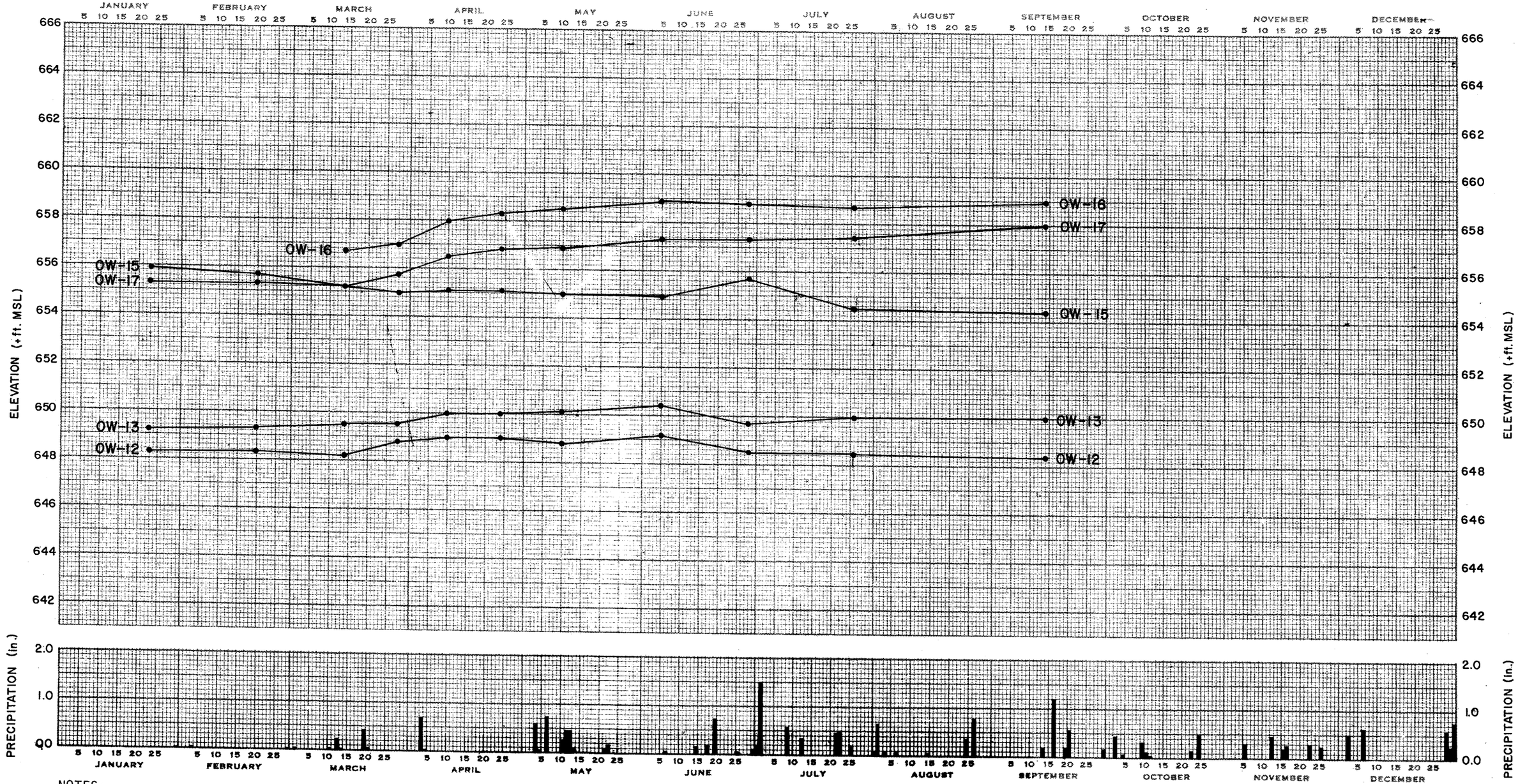
1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURES 2.4-32 AND 2.5-272.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JULY 18 TO AUGUST 10, AND OCTOBER 16 TO DECEMBER 31, 1977.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-49

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 7

(SHEET 1 of 3)



1978

NOTES:

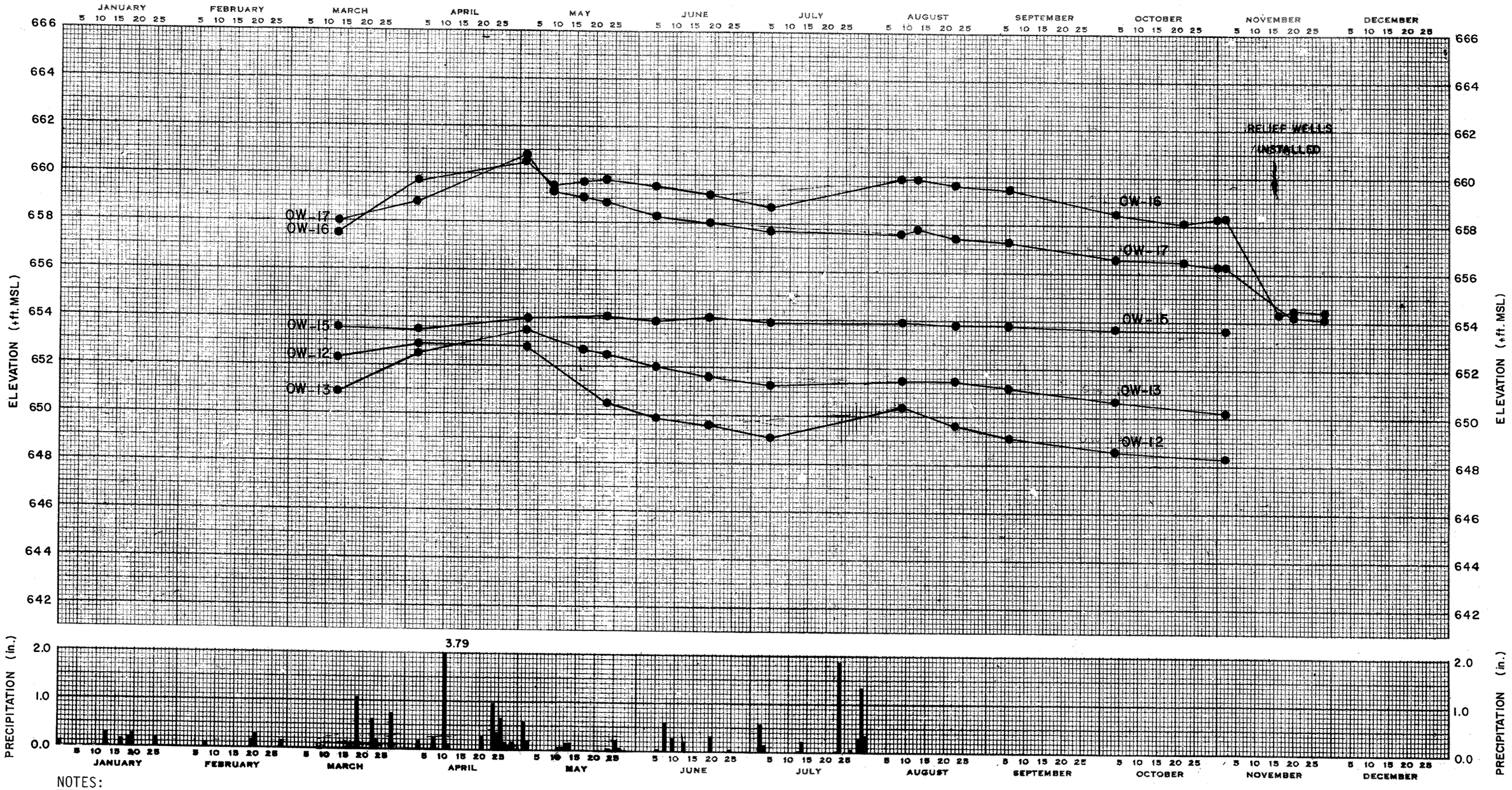
1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURES 2.4-32 AND 2.5-272.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JANUARY 1 TO JANUARY 27, FEBRUARY 6 TO FEBRUARY 15, MARCH 22 TO MARCH 31, APRIL 6 TO APRIL 26, AND AUGUST 17 TO AUGUST 22.
4. NO GROUND WATER LEVEL DATA WERE RECORDED FROM SEPTEMBER 14 THROUGH DECEMBER 31, 1978.
5. PIEZOMETER OW-16 WAS FROZEN ON JANUARY 23, 1978.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-49

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 7

(SHEET 2 of 3)



NOTES:

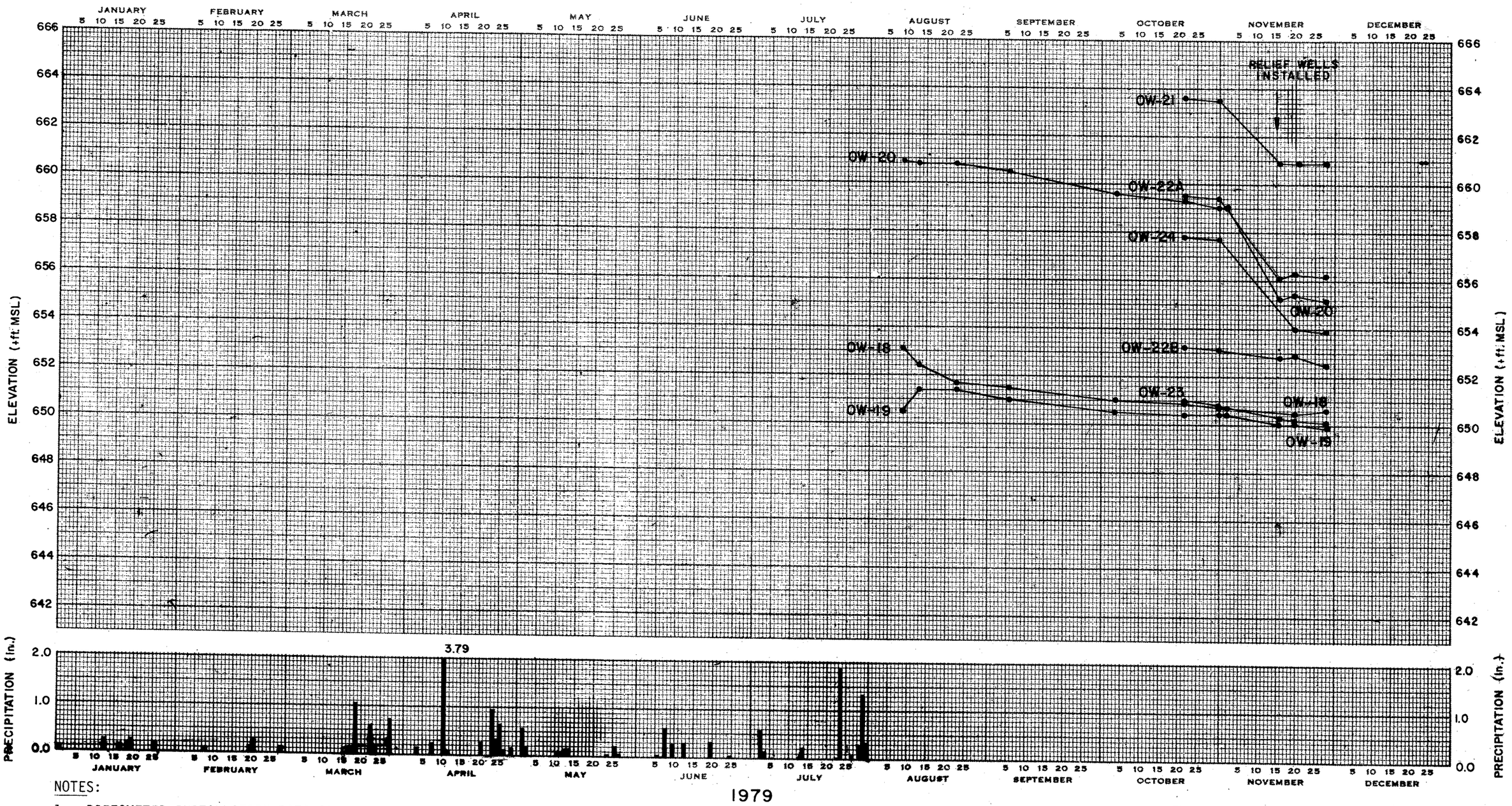
1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURES 2.4-32 AND 2.5-272.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JANUARY 30 AND 31, MARCH 2 THROUGH MARCH 9, MARCH 29 THROUGH APRIL 2, JULY 5 THROUGH JULY 9, 1979.
4. NO GROUND WATER LEVEL DATA WERE REPORTED FROM JANUARY 1 THROUGH MARCH 12, 1979.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-49

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 7

(SHEET 3 of 3)



NOTES:

1. PIEZOMETER INSTALLATION DATA ARE LISTED IN TABLE 2.4-31.
2. PIEZOMETER LOCATIONS ARE SHOWN ON FIGURES 2.4-32 AND 2.5-272.
3. DAILY PRECIPITATION DATA ARE OBTAINED FROM AN ONSITE RAIN GAUGE. PRECIPITATION DATA ARE UNAVAILABLE FOR JANUARY 30 AND 31, MARCH 2 THROUGH MARCH 9, MARCH 29 THROUGH APRIL 2, JULY 5 THROUGH JULY 9, 1979.
4. THE OPERATION OF PIEZOMETERS OW-18, OW-19, AND OW-20 WAS BEGUN ON AUGUST 9, 1979.

1979

CLINTON POWER STATION
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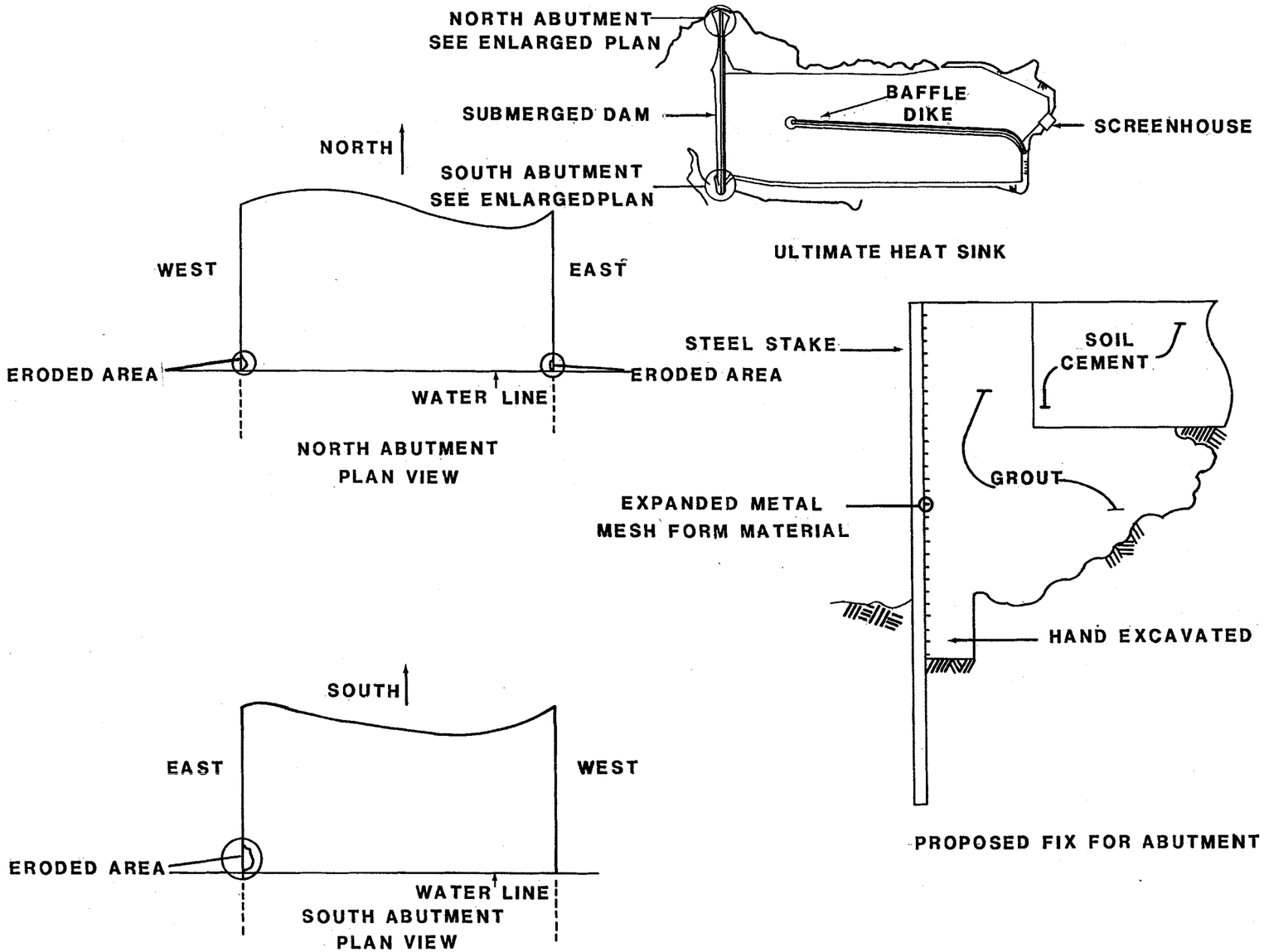
FIGURE 2.4-50

GROUNDWATER LEVELS AND
DAILY PRECIPITATION - GROUP 8

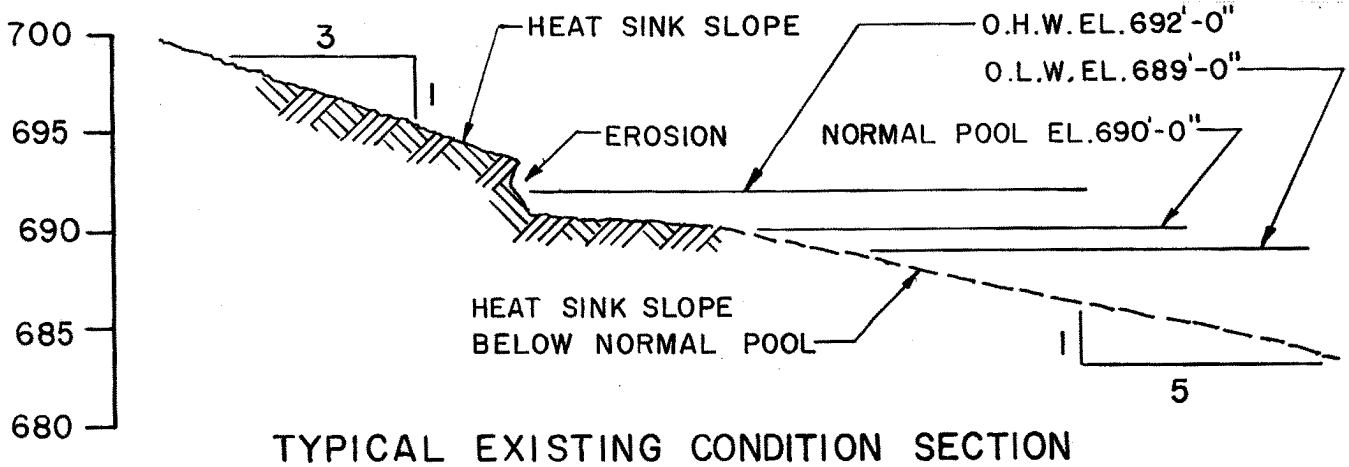


PROPOSED FIX FOR ABUTMENT EROSION

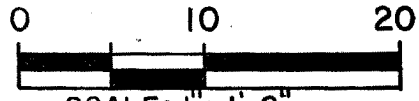
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

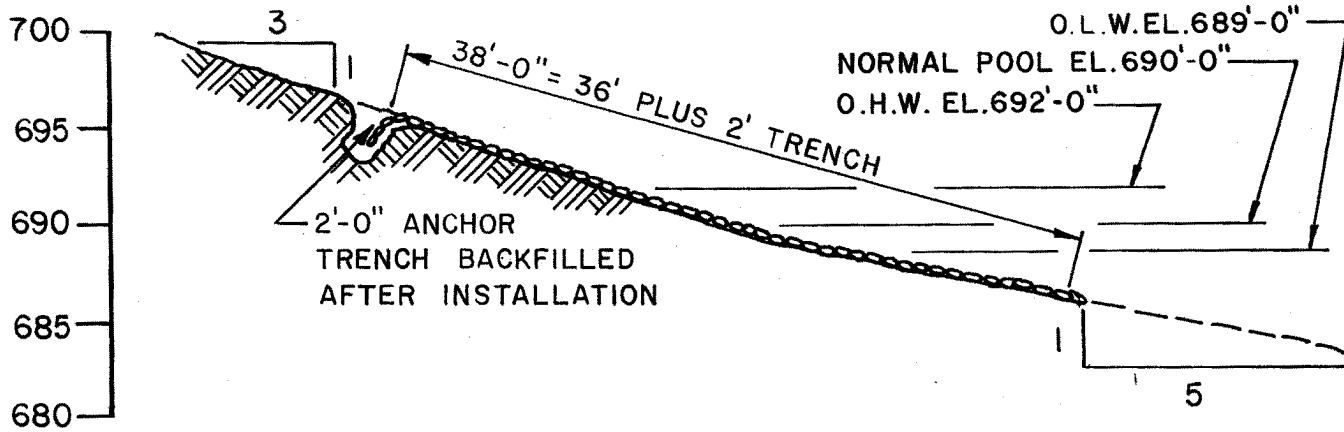
Figure 2.4-51
(Q & R 240.5)

REPAIR OF UHS ABUTMENTS

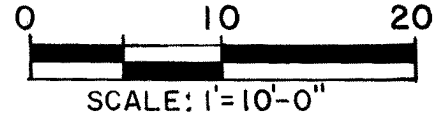


TYPICAL EXISTING CONDITION SECTION



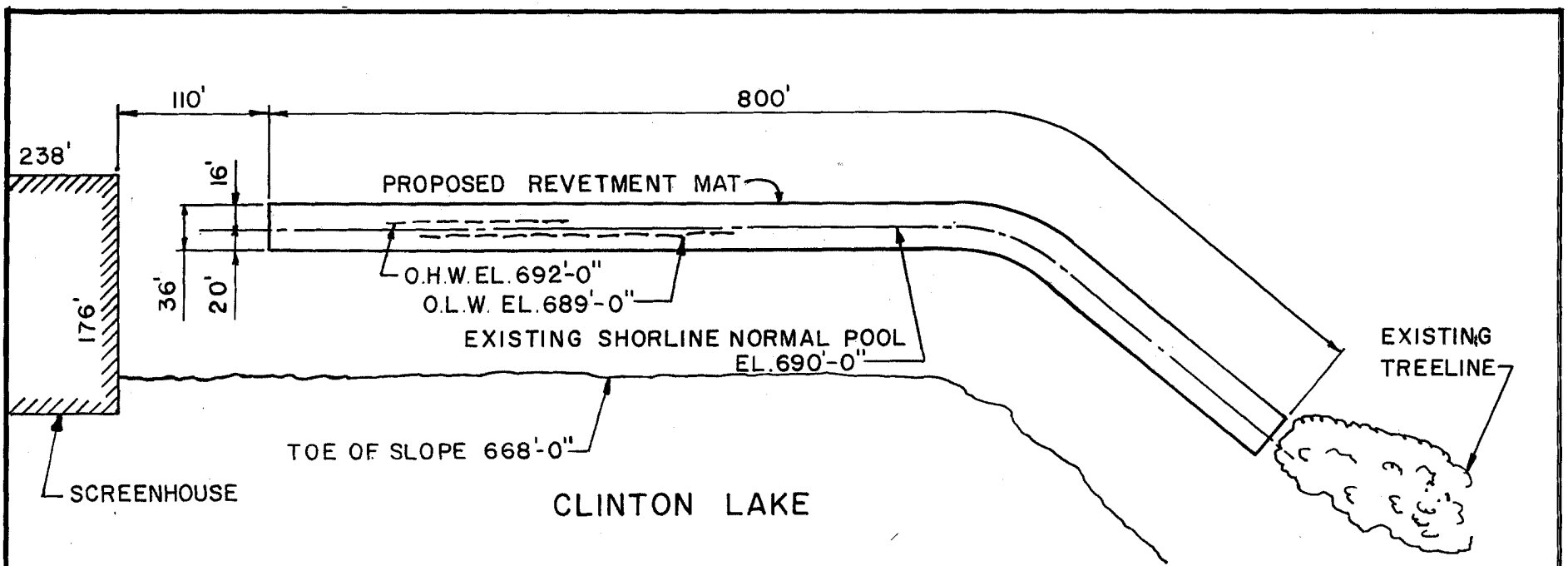


TYPICAL PROPOSED REVETMENT MAT SECTION



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

Figure 2.4-52
(Q & R 240.5)
REVETMENT MAP
SOUTH OF SCREENHOUSE
(SHEET 1 of 2)



NOTES:

1. SLOPES SHALL BE SHAPED TO AN APPROXIMATE 3 TO 1 SLOPE USING COMMON CONSTRUCTION EQUIPMENT (DOZER & FRONT ENDLOADER)
2. APPROXIMATELY 330 CU. YDS. SANDCEMENT MORTER WILL BE USED IN ALL REVETMENT WORK.
3. DATUM IS N.G.V.D. of 1929
4. PURPOSE IS TO ELIMINATE SOIL EROSION AND PROVIDE SURFACE FOR WAVE ACTION

N

PLAN

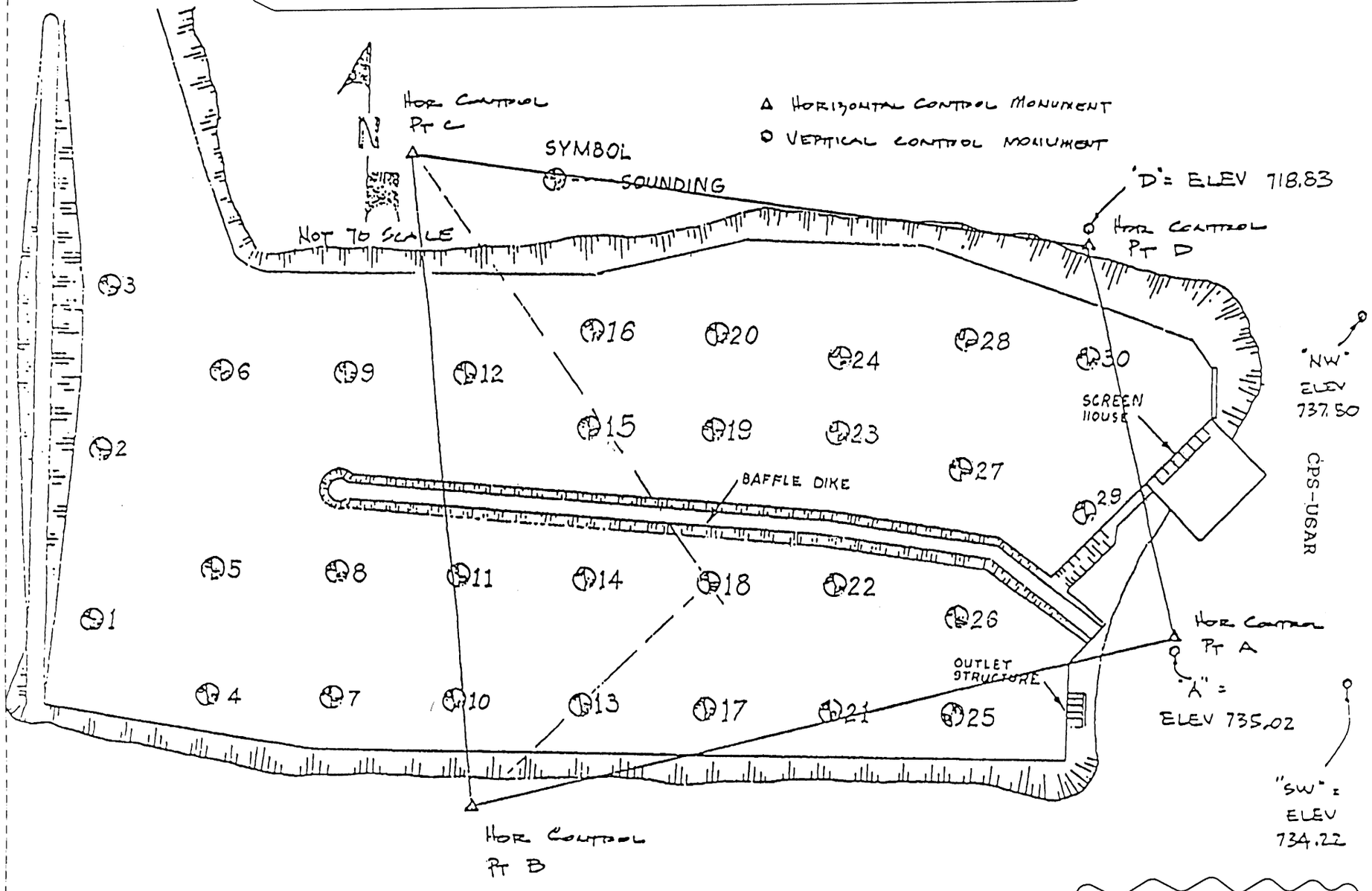
0 40 80 120 240

SCALE: 1" = 120'-0"

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

Figure 2.4-52
(Q & R 240.5)
REVETMENT MAP
SOUTH OF SCREENHOUSE
(SHEET 2 of 2)

REVISION 9
JANUARY 2001



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-53

LOCATIONS FOR SOUNDING SILT ELEVATIONS IN THE UHS